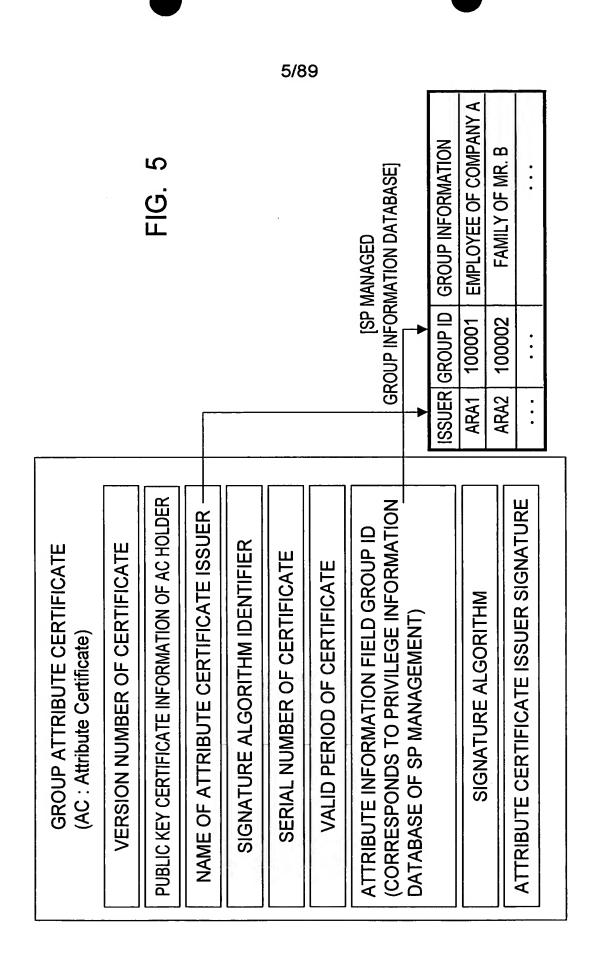


VERSION	ITEM	DESCRIPTION
	VERSION	VERSION OF FORMAT OF CERTIFICATE
	SERIAL NUMBER	CERTIFICATE NUMBER ASSIGNED BY CERTIFICATE ISSUER
- >	SIGNATURE	SIGNATURE ALGORITHM OF CERTIFICATE
- - -	ISSUER	NAME OF CERTIFICATE ISSUER (DISTINGUISHED NAME FORMAT)
	VALIDITY	PERIOD IN WHICH CERTIFICATE IS
	START END	STARTING DATE AND TIME ENDING DATE AND TIME
	SUBJECT	NAME OF HOLDER OF CERTIFICATE
	SUBJECT PUBLIC KEY INFORMATION ALGORITHM SUBJECT PUBLIC KEY	PUBLIC KEY INFORMATION OF HOLDER OF CERTIFICATE ALGORITHM OF KEY KEY

					L	L
KEY IDENTIFIER OF CERTIFICATE ISSUER USED FOR SIGNATURE VERIFICATION KEY IDENTIFIER ORGANIZATION CERTIFICATE ISSUER NAME (GENERAL NAME FORMAT) ORGANIZATION CERTIFICATE SERIAL NUMBER	CLEARLY IDENTIFY OBJECT KEY FROM MULTIPLE KEYS	SPECIFY USAGE OF KEY (0) FOR DIGITAL SIGNATURE (1) FOR PREVENTING REPUDIATION (2) FOR ENCIPHERING KEY (3) FOR ENCIPHERING MESSAGE	(4) FOR DISTRIBUTING SHARED KEY (5) FOR CONFIRMING SIGNATURE OF CERTIFICATION (6) FOR CONFIRMING SIGNATURE OF REVOCATION LIST	VALID PERIOD FOR SECRET KEY CORRESPONDING TO PUBLIC KEY IN CERTIFICATE	CERTIFICATE POLICY ACKNOWLEDGED BY CERTIFICATE ISSUER POLICY ID (ISO/IEC9834-1 COMPLIANT) AUTHENTICATION STANDARD	RESTRICTION OF RELATION OF POLICIES IN AUTHENTICATION PATH
AUTHORITY KEY IDENTIFIER KEY IDENTIFIER AUTHORITY CERTIFICATE ISSUER NAME AUTHORITY CERTIFICATE SERIAL NUMBER	SUBJECT KEY IDENTIFIER KEY IDENTIFIER	KEY USAGE (0) DIGITAL SIGNATURE (1) NON-REPUDIATION (2) KEY ENCIPHERMENT (3) DATA ENCIPHERMENT	(4) KEY AGREEMENT (5) KEY CERT SIGNATURE (6) cRL SIGNATURE	SECRET KEY VALIDITY START END	CERTIFICATE POLICY POLICY IDENTIFIER POLICY QUALIFIER	POLICY MAPPING ISSUER DOMAIN POLICY SUBJECT DOMAIN POLICY
K- 3						

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							FIG	
ALTERNATIVE NAME FOR CERTIFICATE HOLDER (GN FORMAT)	ALTERNATIVE NAME FOR CERTIFICATE ISSUER(GN FORMAT)	ATTRIBUTE OF DIRECTORY NECESSARY FOR CERTIFICATE HOLDER	DISTINGUISH WHETHER PUBLIC KEY FOR CERTIFICATION IS FOR SIGNATURE OF CERTIFYING AUTHORITY, OR BELONGS TO CERTIFICATE HOLDER	RESTRICTS NAME OF CERTIFICATE ISSUED BY ISSUER	RESTRICTS RELATIONS OF POLICIES IN AUTHENTICATION PATH	DESCRIBES DISTRIBUTION POINTS OF REVOCATION LIST FOR CONFIRMING WHETHER OR NOT CERTIFICATE HAS BEEN REVOKED AT TIME OF CERTIFICATE HOLDER USING CERTIFICATE	ALGORITHM USED FO ATTACHING SIGNATURE TO CERTIFICATE	SIGNATURE BY SECRET KEY OF CERTIFICATE ISSUER
SUBJECT ALTERNATE NAME	ISSUER ALTERNATIVE NAME	SUBJECT DIRECTORY ATTRIBUTE	BASIC CONSTRAINT CA PATH LENGTH CONSTRAINT	NAMING CONSTRAINT PERMITTED SUBTREES BASE MINIMUM MAXIMUM EXCLUSION CONSTRAINT	POLICY CONSTRAINT REQUIRE EXPLICIT POLICY INHIBIT POLICY MAPPING	CRL DISTRIBUTION POINT	SIGNATURE ALGORITHM	SIGNATURE VALUE
V-3								



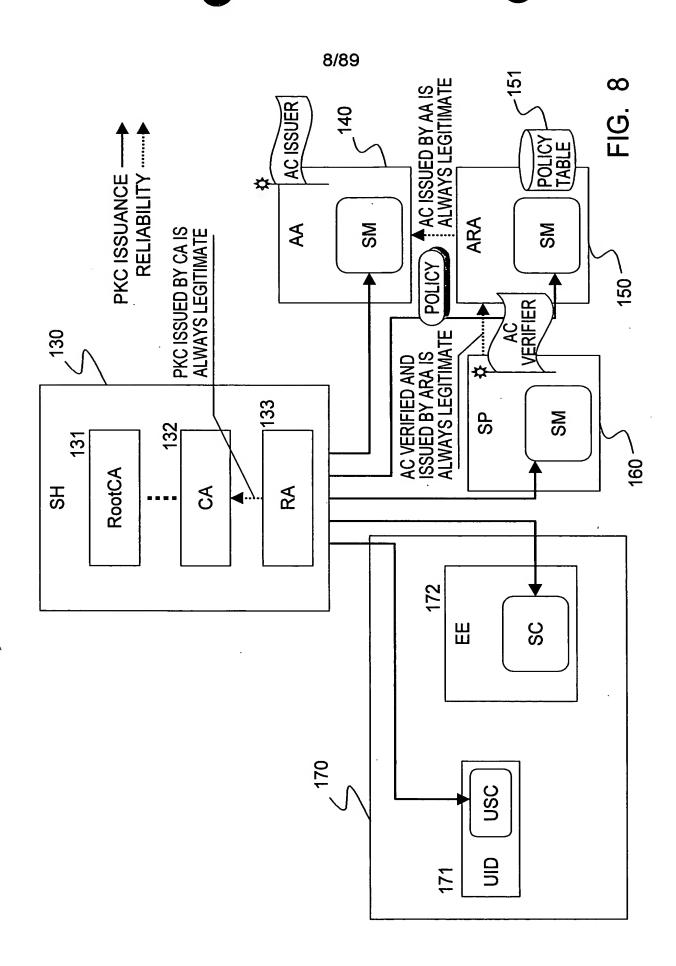
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ATTRIBUTE INFORMATION	GROUP ID
VERIFIER	MS_4S
HOLDER	sc, usc
ISSUER	GROUP ARA

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FIG. 7

ISSNING POLICY	 OWNS AUTHORIZED GAME MACHINE CONFIRMED WITH EE PKC, ETC ALREADY PAID GAME DISTRIBUTION SERVICE JOINING FEE 	• MEMBER OF GAME DISTRIBUTION SERVICE OWNS GAME DISTRIBUTION SERVICE MEMBER AC • AGREED TO LIMIT TO 10 TIMES	•
GROUP INFORMATION	GAME DISTRIBUTION SERVICE MEMBER	10-GAME USAGE MEMBER	•
GROUP ID	1234-0	1234-5-10	:



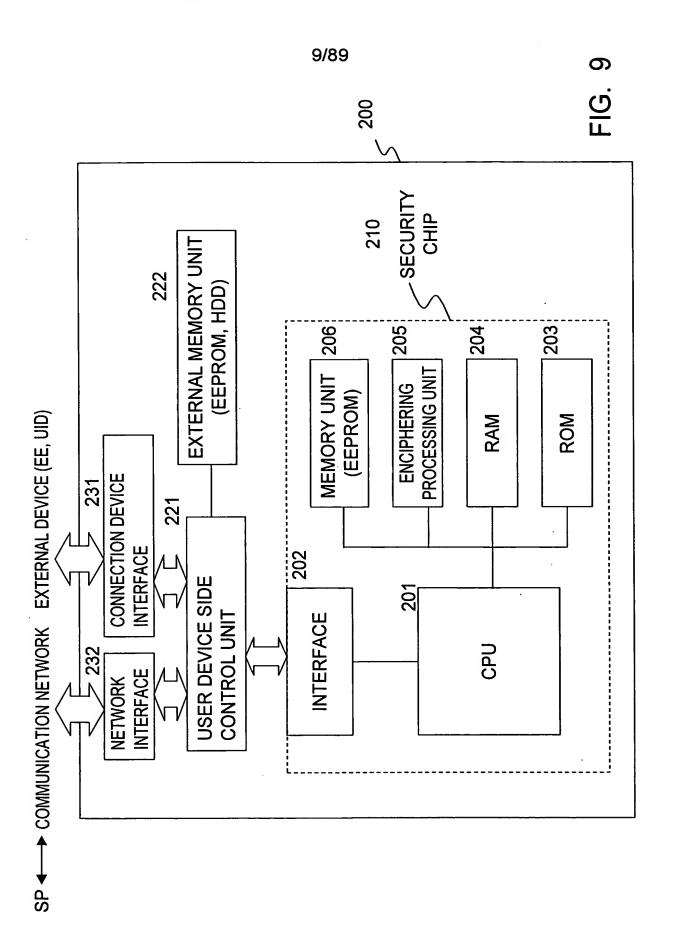
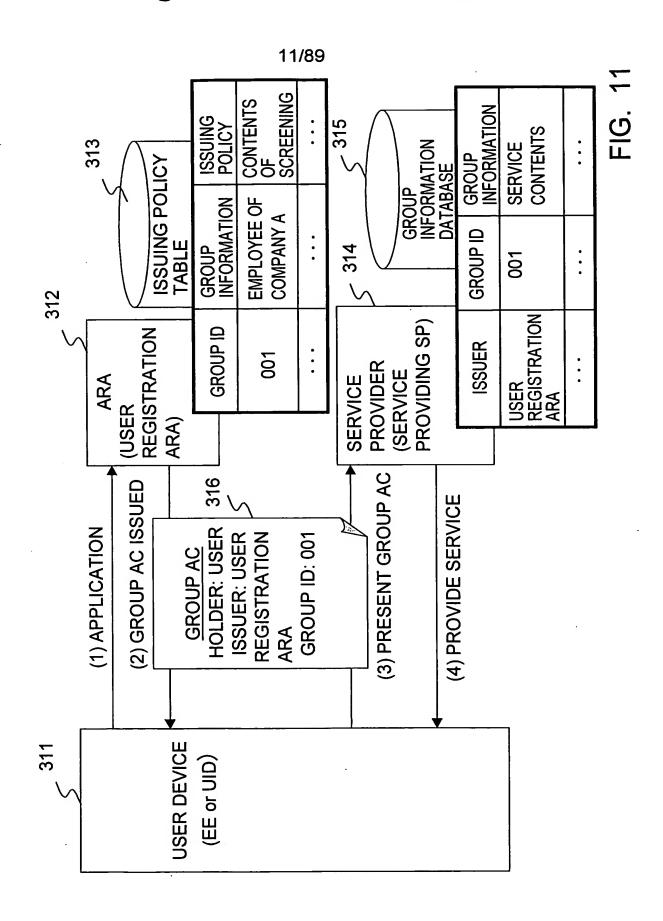


FIG. 10

DATA CONTENTS	• ROUTE CERTIFICATION AUTHORITY PUBLIC KEY CERTIFICATE • SERVICE PROVIDER PUBLIC KEY CERTIFICATE	• ATTRIBUTE CERTIFICATE CORRESPONDING TO GROUP TO WHICH DEVICE BELONGS OR USER BELONGS	• ATTRIBUTE CERTIFICATE CONTAINING ADDRESS DATA OF MEMORY STORING ENCIPHERING COMMAND AND DECIPHERING REGISTRATION KEY OF ENCIPHERING COMMAND	 SECURITY CHIP PUBLIC KEY, SECRET KEY PAIR REGISTRATION KEY RESET KEY RANDOM NUMBER GENERATING KEY, MUTUAL AUTHENTICATION KEY 	 SECURITY CHIP ID SERVICE PROVIDER ID USER ID APPLICATION ID 	• RANDOM NUMBER SEED • SERVICE USAGE INFORMATION, ETC.
DATA TYPE	PUBLIC KEY CERTIFICATE	GROUP ATTRIBUTE CERTIFICATE	EXECUTION ATTRIBUTE CERTIFICATE	KEY DATA	IDENTIFICATION INFORMATION	OTHERS



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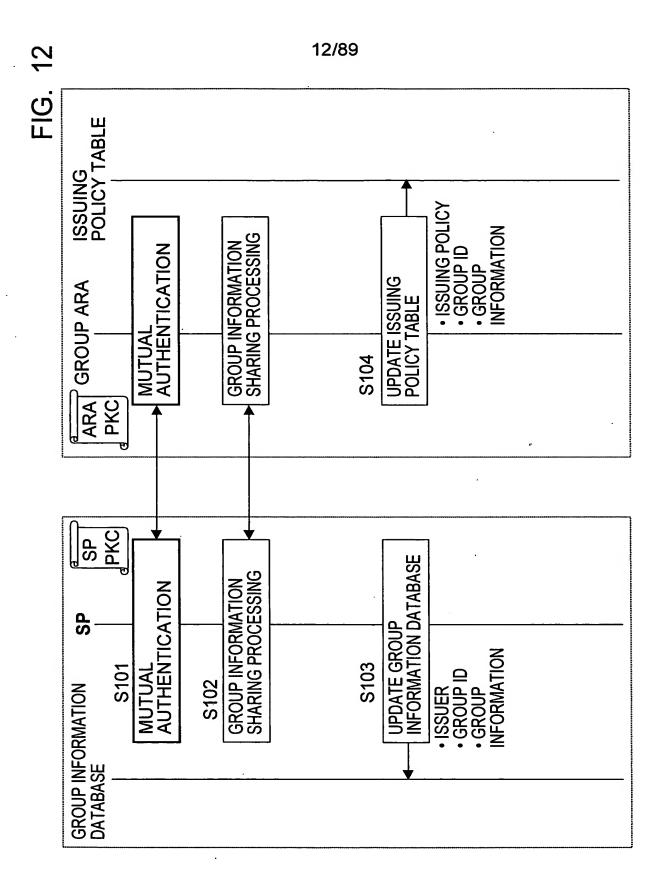
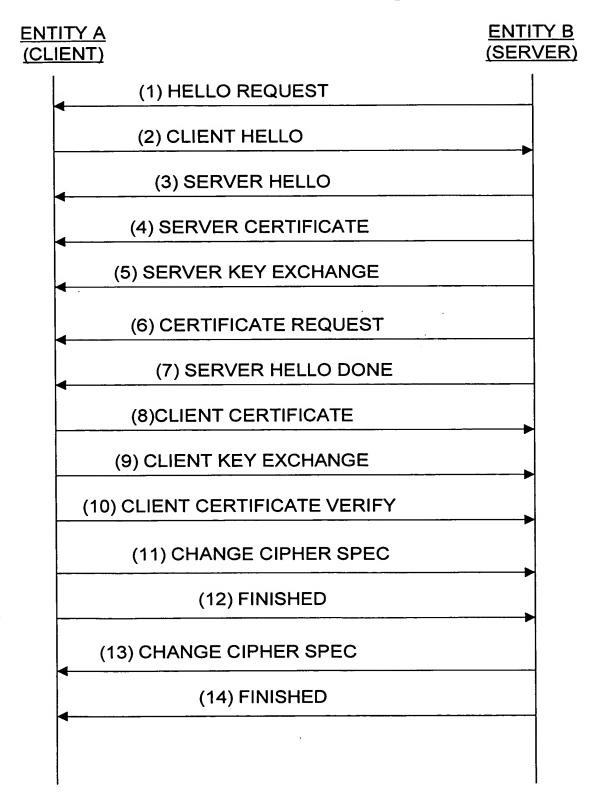
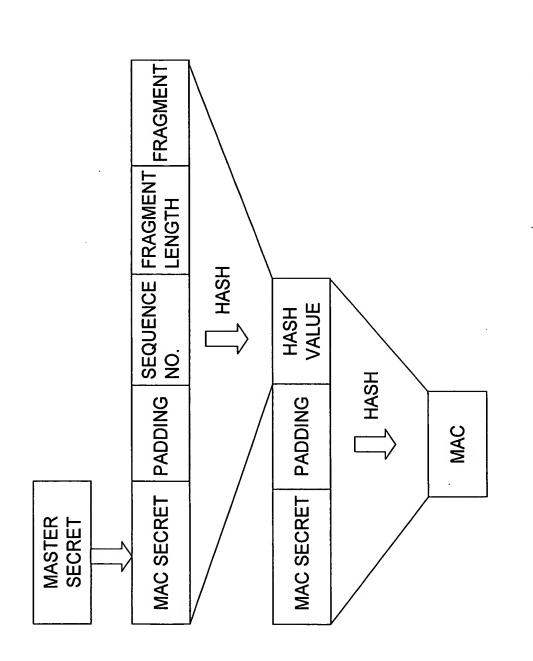


FIG. 13

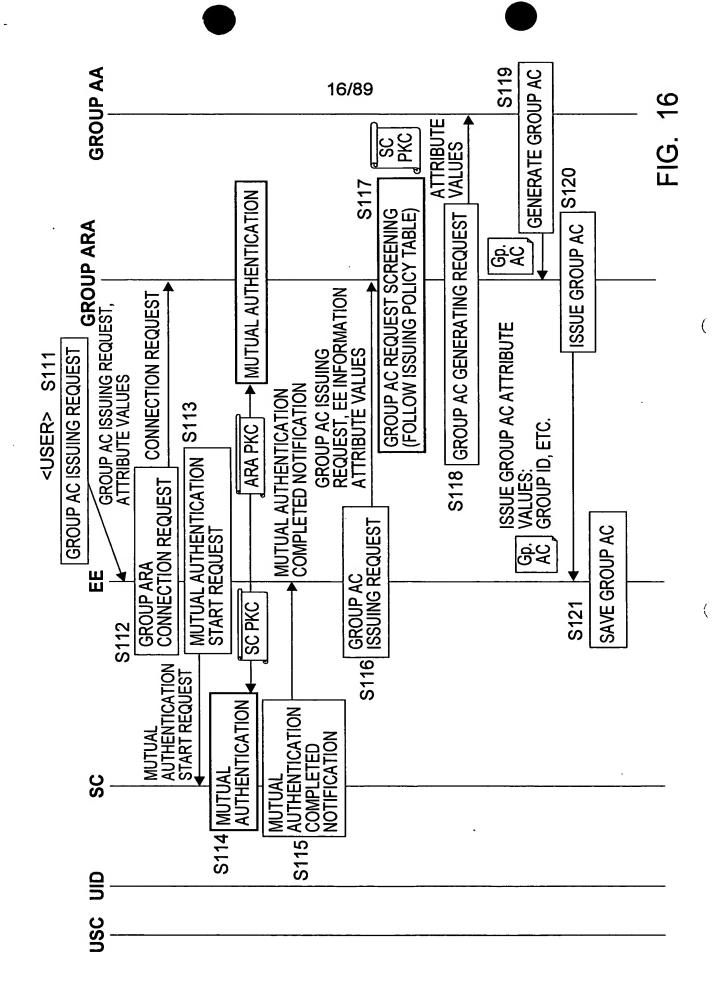




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			1:	5/89							
E (HELD BY ARA)	ISSUING POLICY	 OWNS AUTHORIZED GAME MACHINE CONFIRMED WITH EE PKC, ETC ALREADY PAID GAME DISTRIBUTION SERVICE JOINING FEE 	• MEMBER OF GAME DISTRIBUTION SERVICE OWNS GAME DISTRIBUTION SERVICE MEMBER AC • AGREED TO LIMIT TO 10 TIMES			Č	35.	> 352	<u></u>	, C	<u>5</u>
(A) ISSUING POLICY TABLE (HELD BY ARA)	GROUP INFORMATION	GAME DISTRIBUTION SERVICE MEMBER	10-GAME USAGE MEMBER	***************************************	GROUP INFORMATION	MAINTENANCE: FULL- SERVICE SUBSCRIBER	MAINTENANCE: TRIAL	GAME DISTRIBUTION SERVICE MEMBER	10-GAME USAGE MEMBER	TANAKA FAMILY, FAMILY	TANAKA FAMILY, CHILDREN
	GROUP ID	341	342 1234-5-10	SP)	GROUP ID	1001	1002 N	1234-0 G	1234-5-10 1	T 001	T 002
		m	€	(B) GROOF INFORMATION DATABASE (HELD BY SP)	ISSUER	MANUFACTURER	MANUFACTURER	GAME DISTRIBUTION SERVICE	GAME DISTRIBUTION SERVICE	TANAKA FAMILY, HEAD	TANAKA FAMILY, HEAD



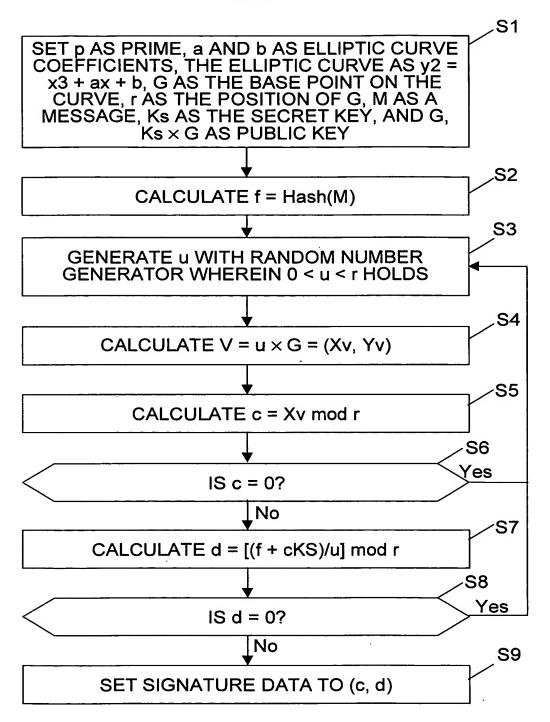


FIG. 17

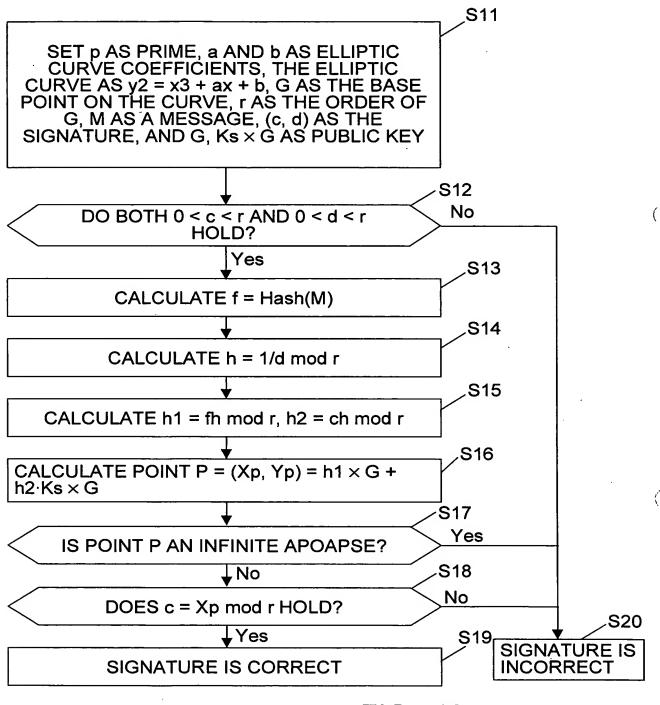
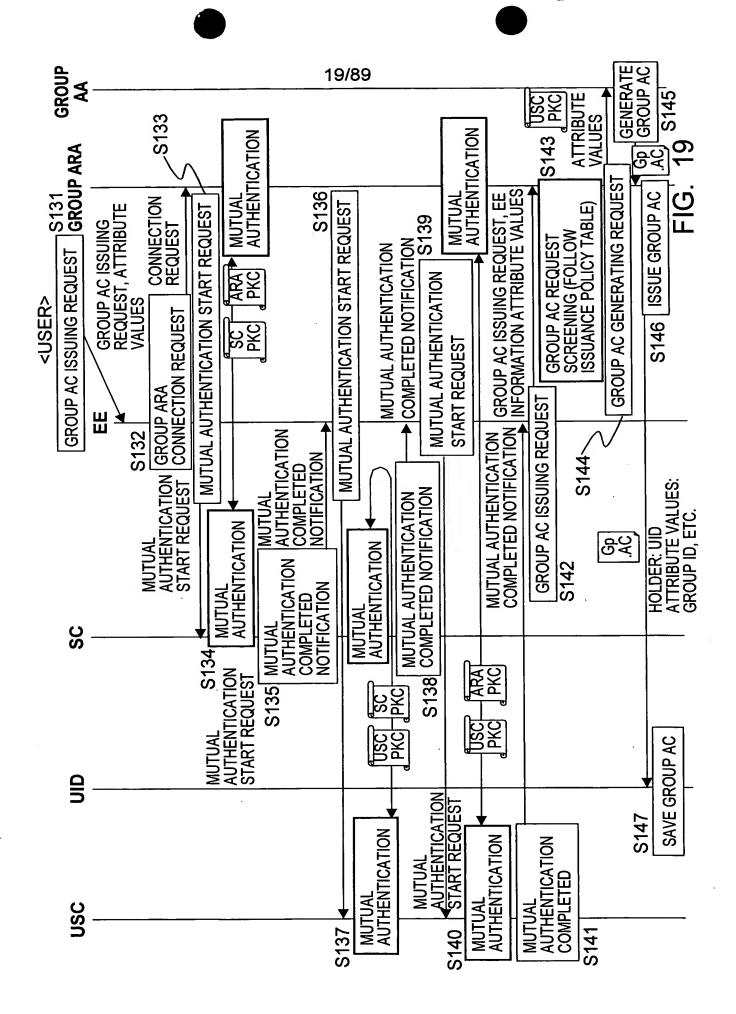
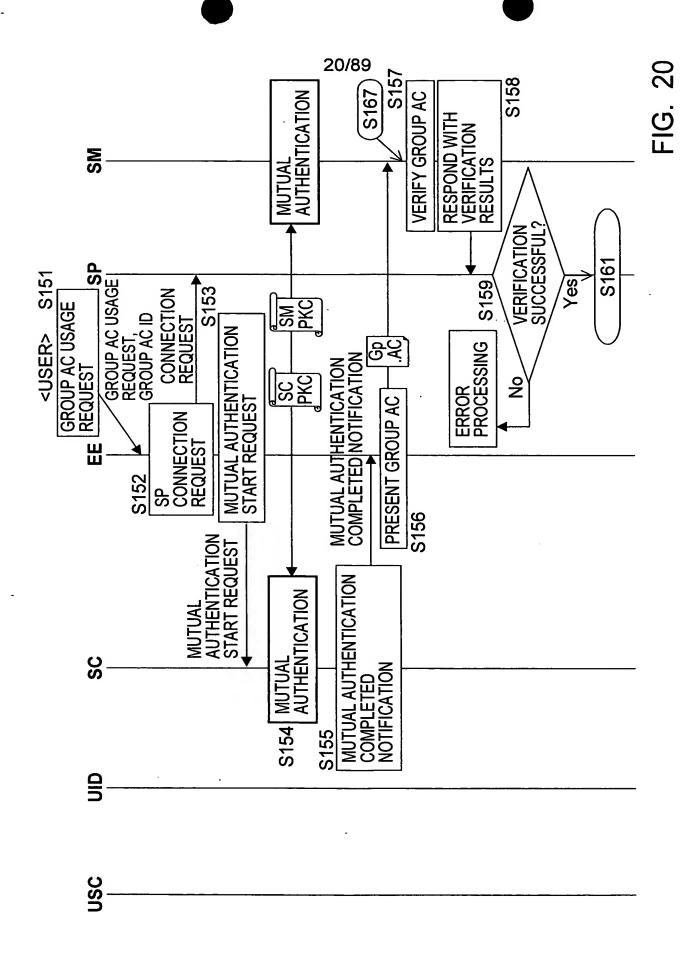
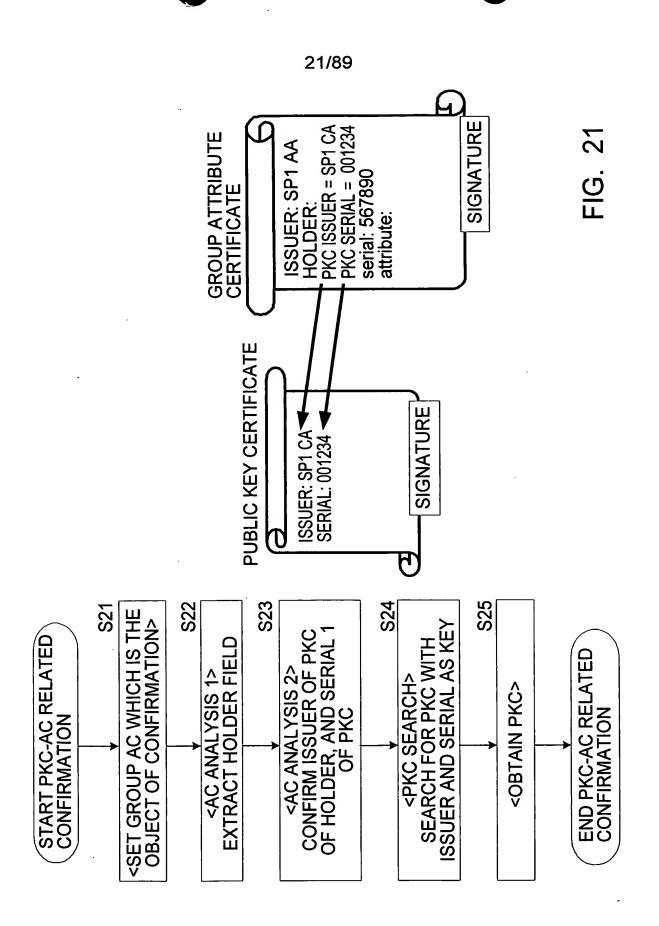
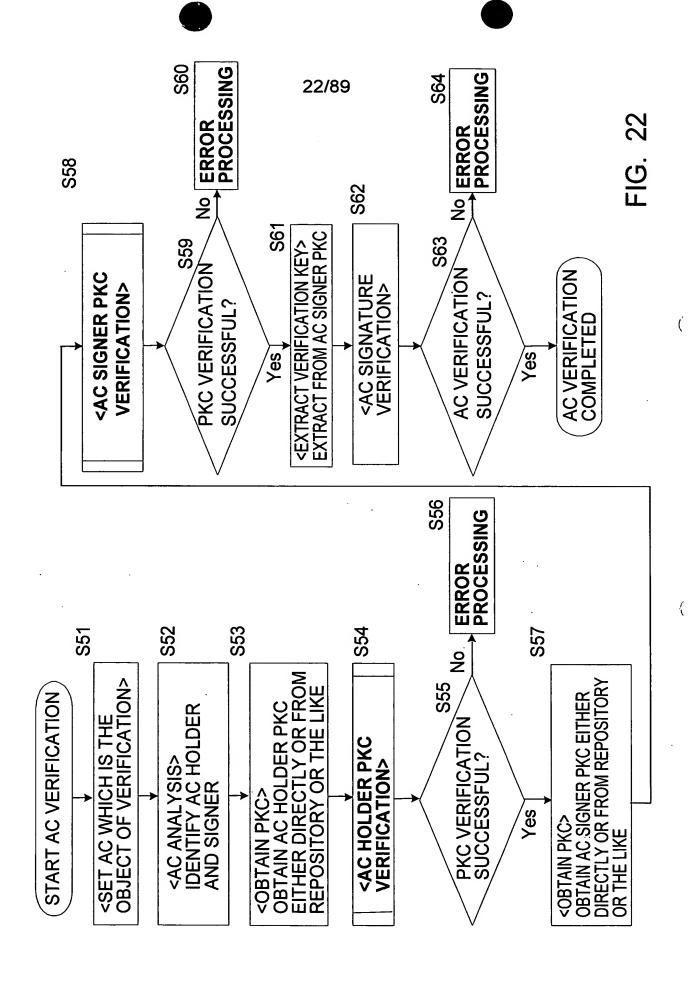


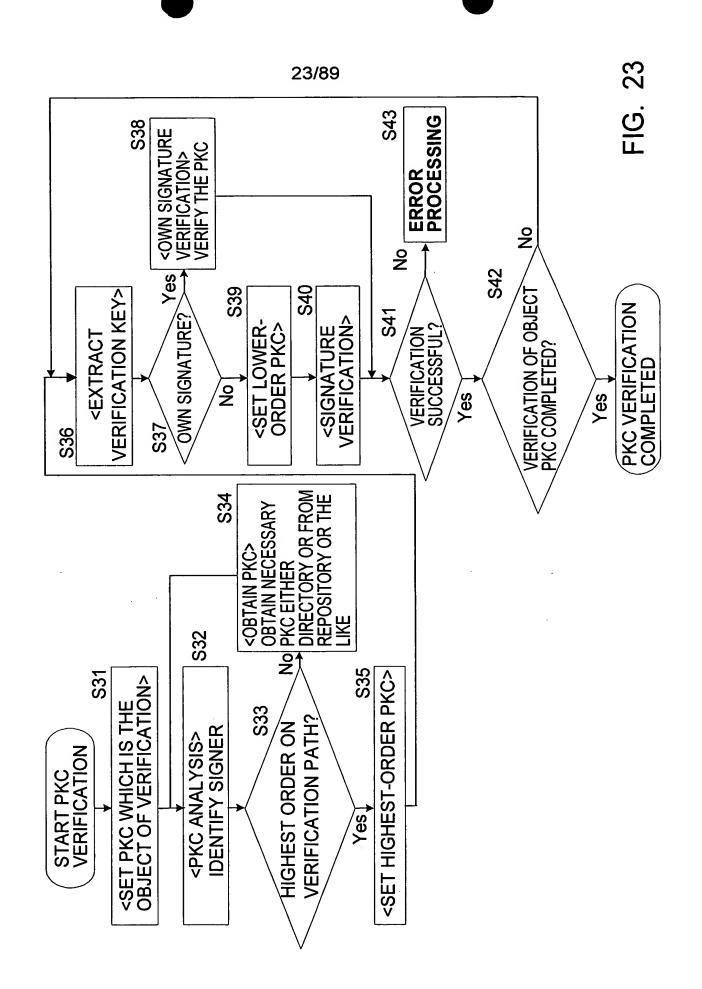
FIG. 18



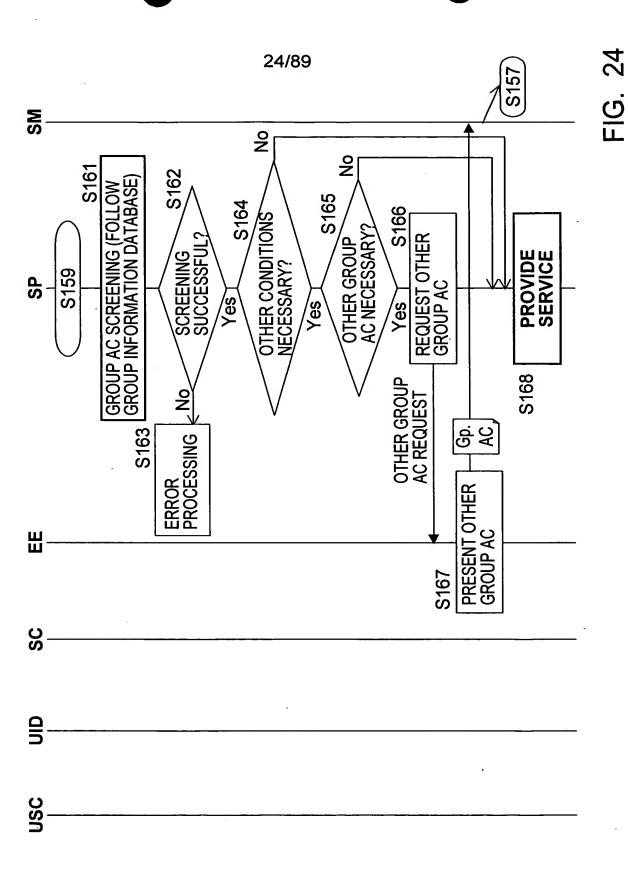








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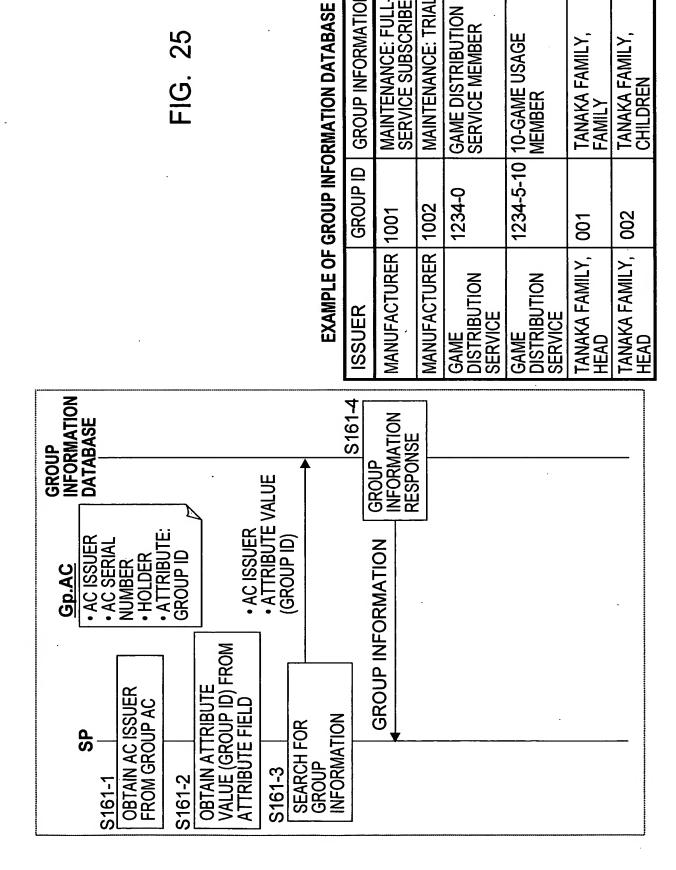
TANAKA FAMILY, FAMILY

8

1234-5-10 10-GAME USAGE | MEMBER

TANAKA FAMILY, CHILDREN

002



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MAINTENANCE: FULL-SERVICE SUBSCRIBER

MAINTENANCE: TRIAL

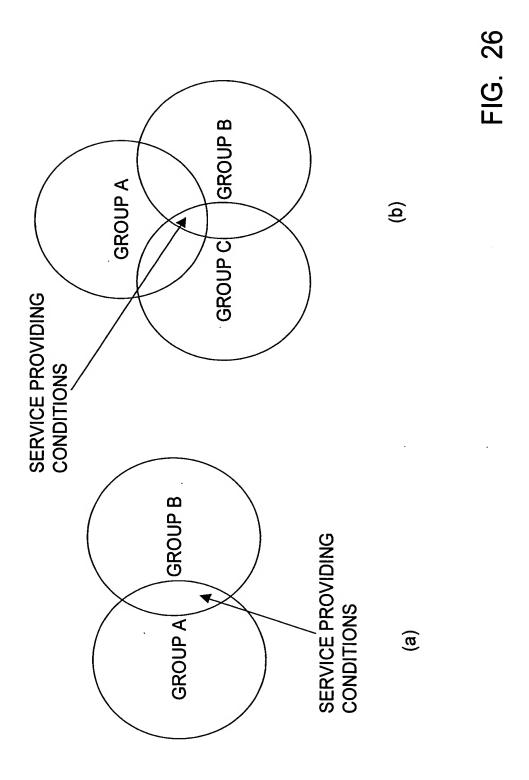
GAME DISTRIBUTION SERVICE MEMBER

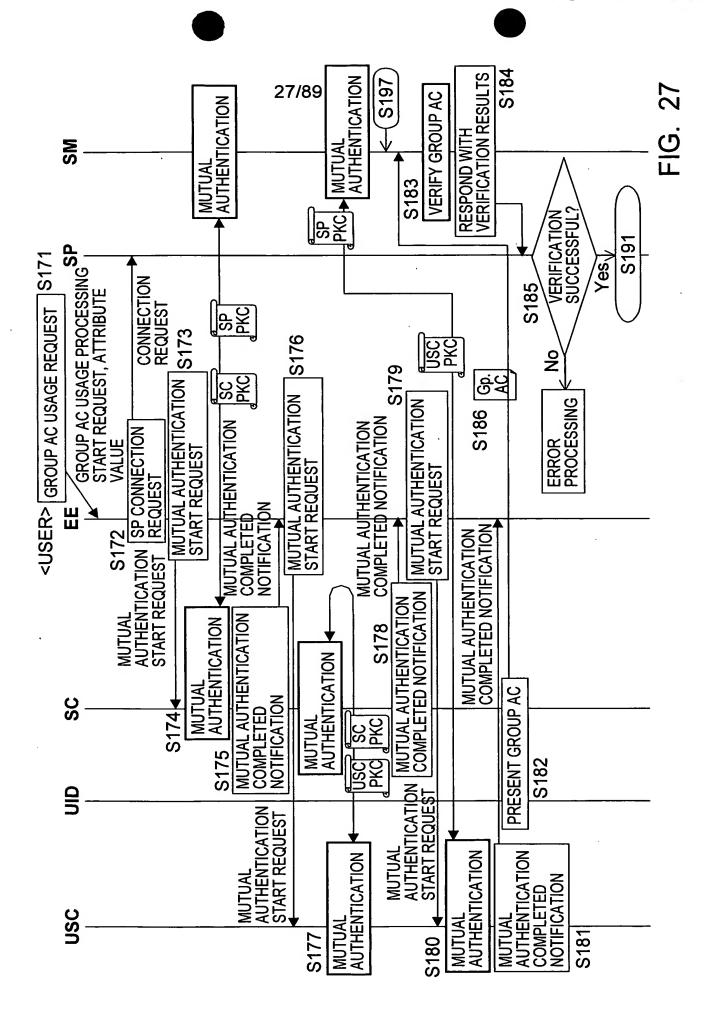
1234-0

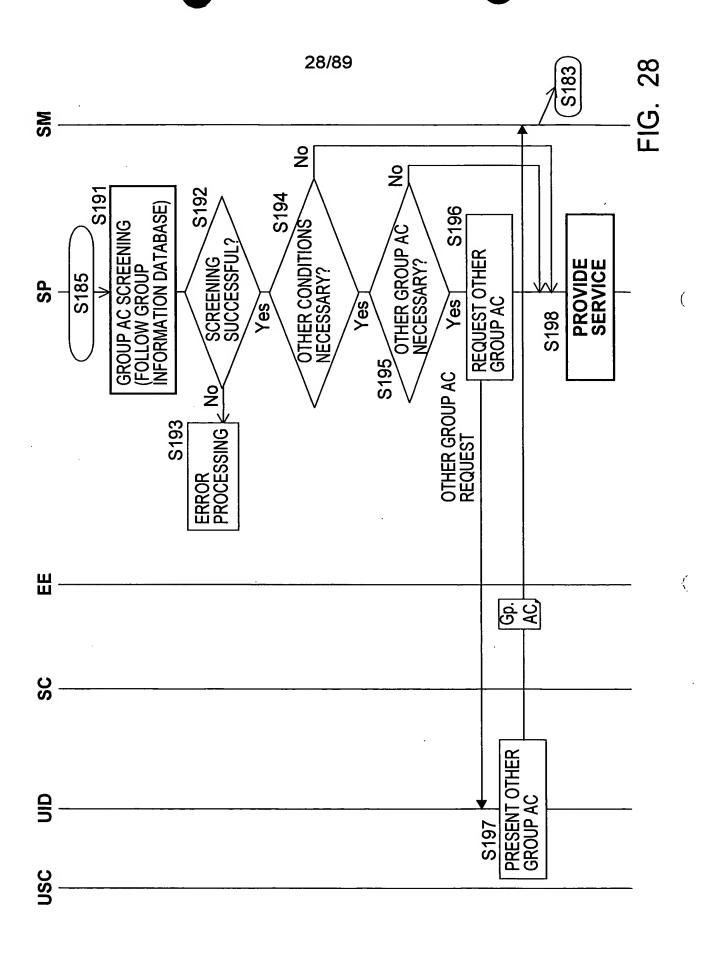
GROUP INFORMATION

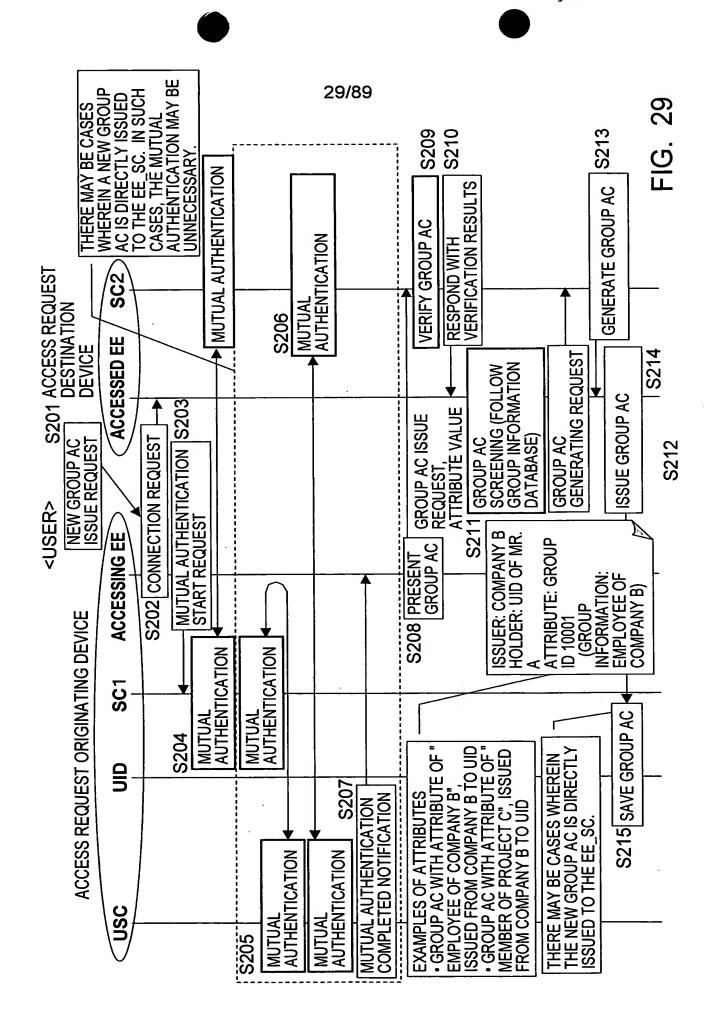
GROUP ID

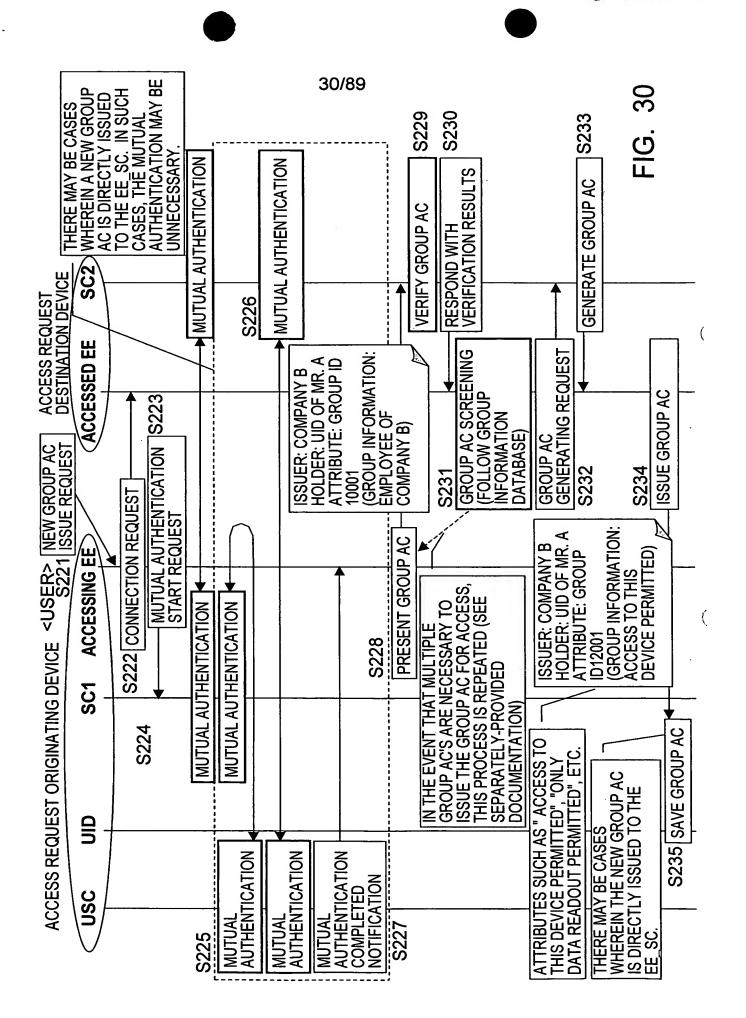
25

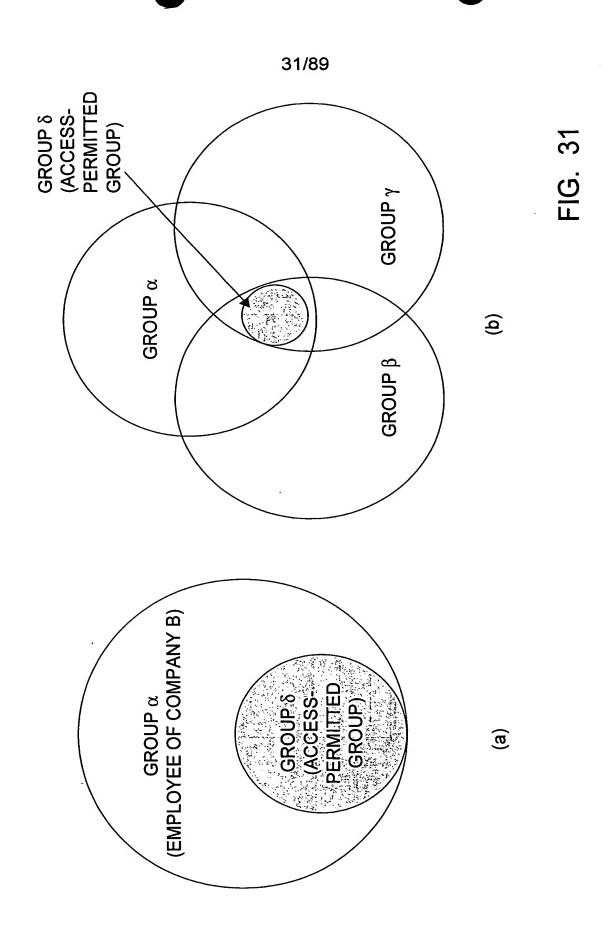


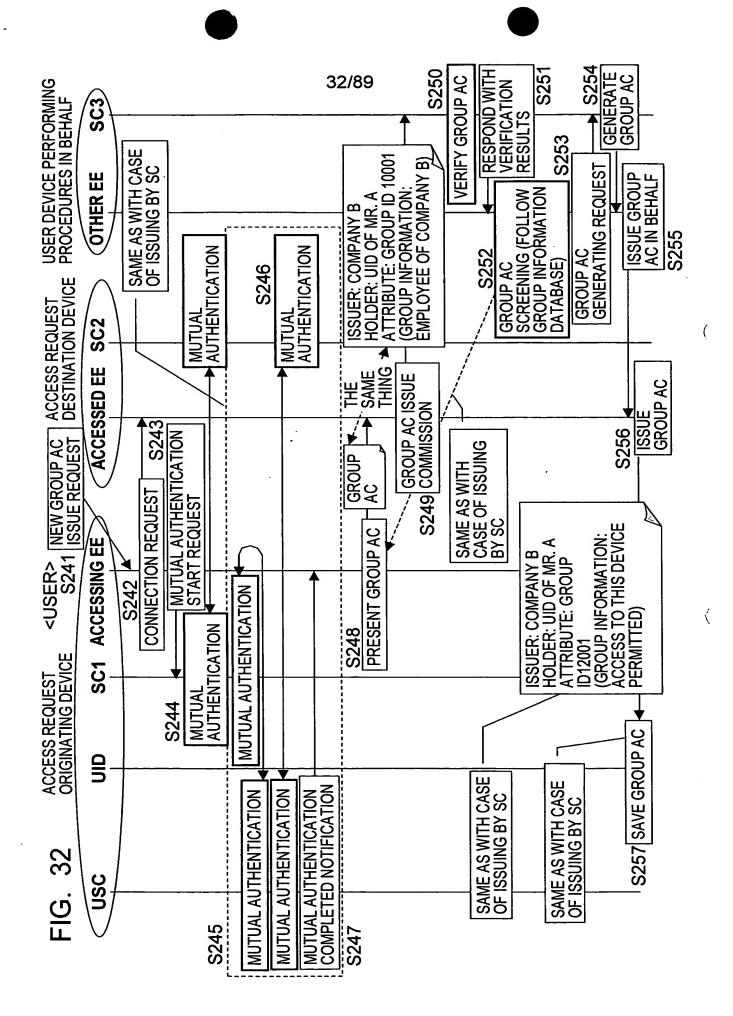


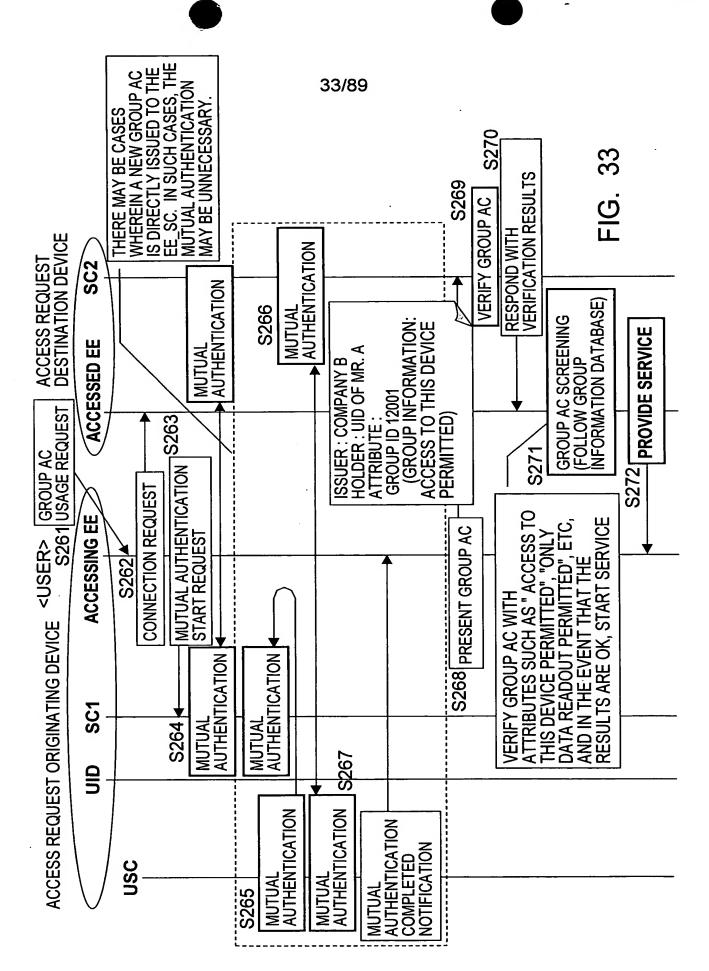




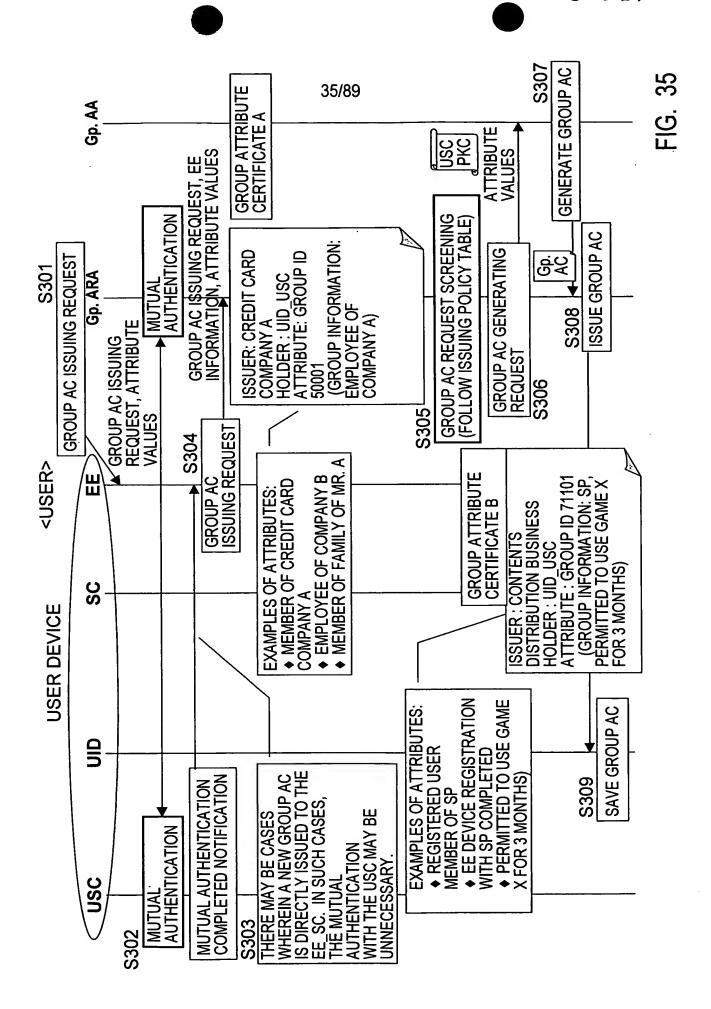


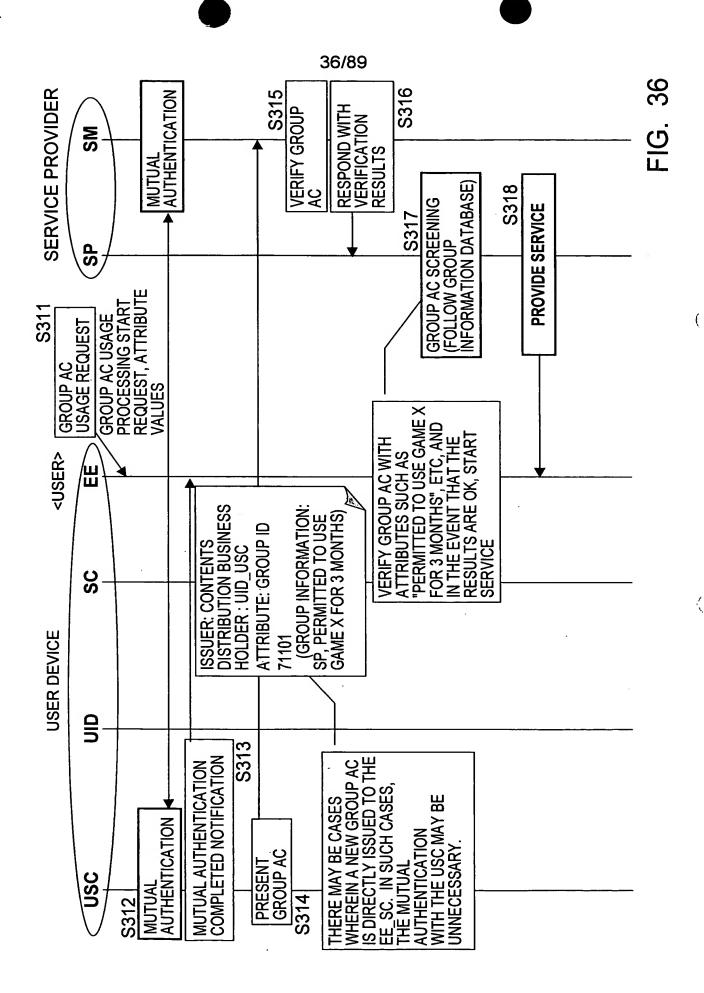






			34/89)				
ATTRIBUTE	CARD COMPANY A MEMBER	EMPLOYEE OF COMPANY B	FAMILY OF MR. A	FAMILY OF MR. A	USER REGISTRATION FOR EE	EE REGISTRATION FOR EE	OWNED BY ISSUER	DEVICE OF MR. A
VERIFIER	SP_SM	SP_SM	SP_SM	SP_SM	SP_SM	SP_SM	SP_SM	SP_SM
HOLDER	MR. A UID_USC	MR. A UID_USC	INDIVIDUAL FAMILY MEMBER UID_USC	INDIVIDUAL FAMILY MEMBER UID_USC	MR. A UID_USC	DEVICE EE_SC	DEVICE EE_SC	DEVICE EE_SC
ISSUING TIMING	OPTIONAL (PERMISSIBLE EVEN BEFORE PURCHASING EE)	AT TIME OF PURCHASING EE	AT TIME OF MANUFACTURING EE	AFTER PURCHASING EE	AFTER PURCHASING EE			
ISSUER	CARD COMPANY A	COMPANY B	CITY HALL	MR. A	EE MANUFACTURER C	EE MANUFACTURER C	MR. A	EE MANUFACTURER C

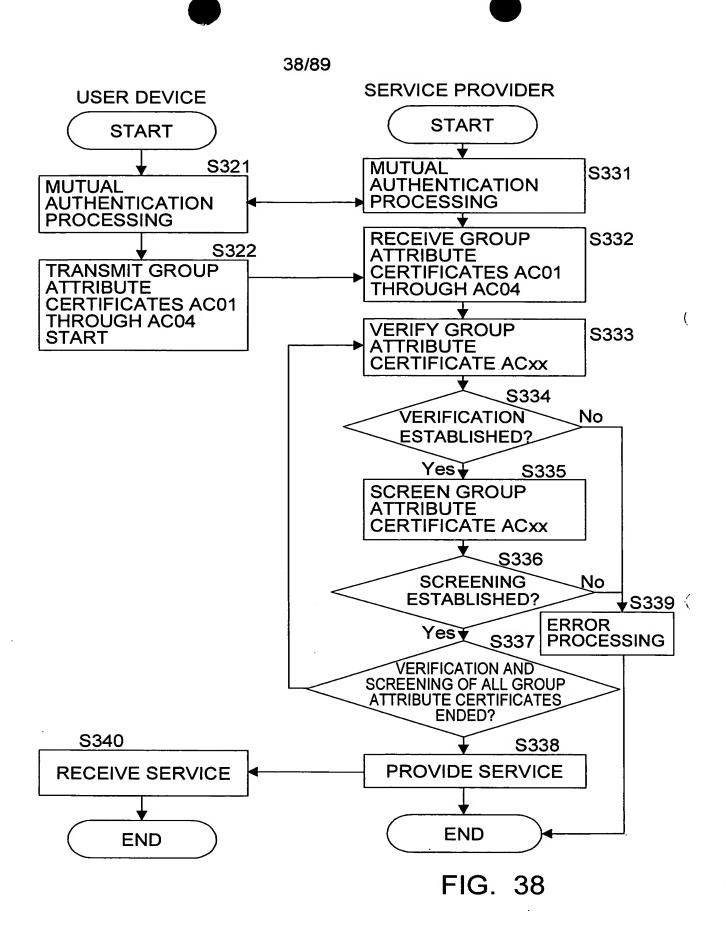




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	AC TITLE	ATTRIBUTE INFORMATION (= ISSUING POLICY)	ISSUER (GROUP AA, ARA)	HOLDER
AC01	1. STUDENT ID CARD	STUDENT OF ISSUER	UNIVERSITY A (AA OPERATED (MANAGED) USER C THEREBY)	USC OF UID OF USER C
AC02	2. ART CLASS PARTICIPANT CARD	HOLDER OF RIGHT TO PARTICIPATE IN ART CLASSES HOSTED BY ISSUER	UNIVERSITY A (AA OPERATED (MANAGED) THEREBY)	USC OF UID OF USER C
AC03	3. MANAGED DEVICE CERTIFICATE	DEVICE MANAGED BY ISSUER	UNIVERSITY A (AA OPERATED (MANAGED) WHICH IS AN END THEREBY)	SC OF TELEVISION D WHICH IS AN END ENTITY (EE)
AC04	4. EDUCATIONAL DEVICE CERTIFICATE	DEVICE FOR EDUCATIONAL USE	MINISTRY OF SC OF TELEVISION D EDUCATION, CULTURE, WHICH IS AN END SPORTS, SCIENCE AND TECHNOLOGY (AA OPERATED (MANAGED) THEREBY)	SC OF TELEVISION D WHICH IS AN END ENTITY (EE)

FIG. 37



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SERVICE	AC ISSUER, AC	•	AC ISSUER, AC	INFORMATION OTHER THAN AC	•
VIEW/LISTEN CONTENTS B	UNIVERSITY A, STUDENT IDENTIFICATION CARD		MINISTRY OF EDUCATION, CULTURE, SPORTS, SCIENCE AND TECHNOLOGY, EDUCATIONAL DEVICE CERTIFICATE		
VIEW/LISTEN CONTENTS B					
•					
VIEW/LISTEN CONTENTS G					

FIG. 39

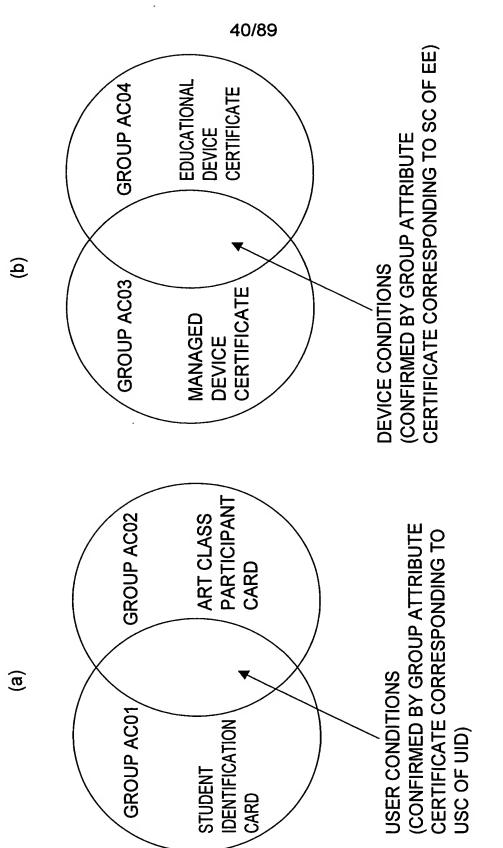
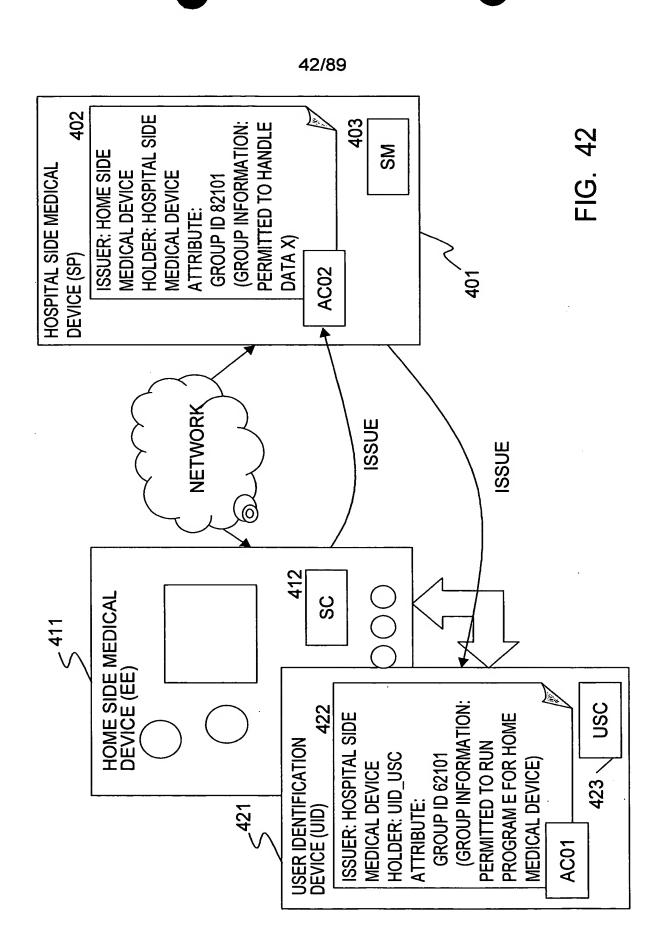
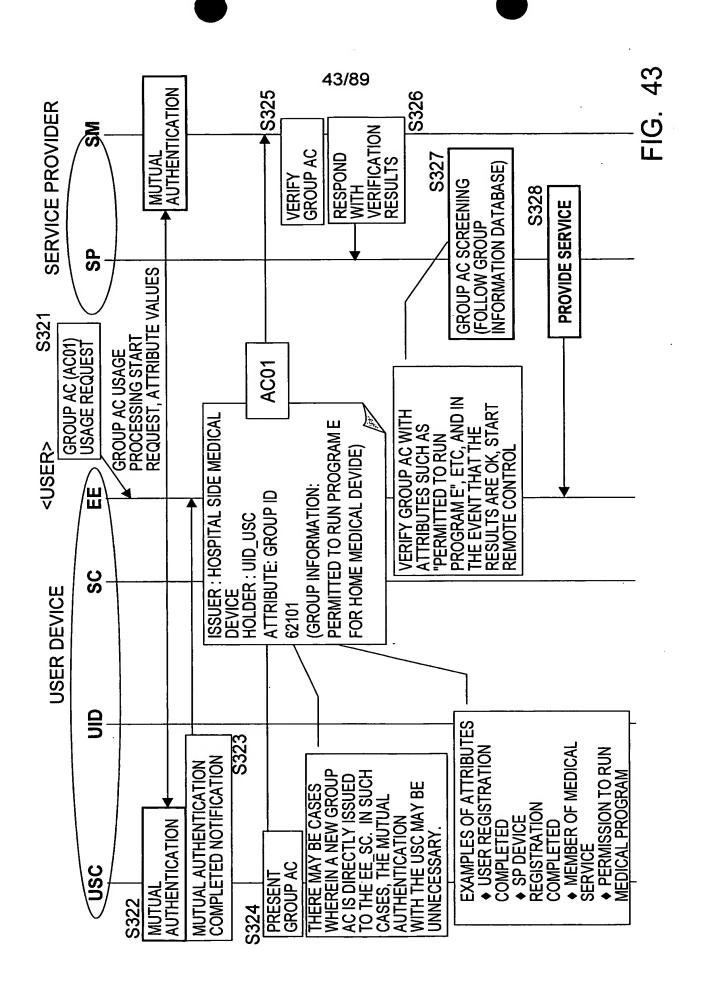


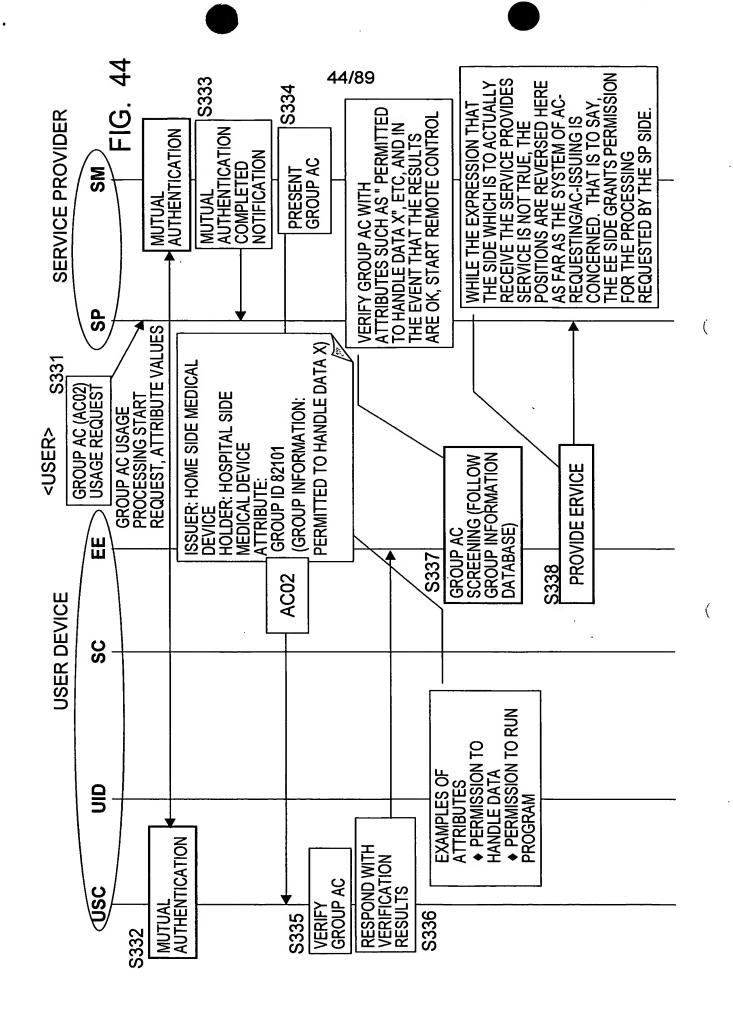
FIG. 40

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	ISSUER	HOLDER	VERIFIER	ATTRIBUTE
AC01	HOSPITAL SIDE MEDICAL DEVICE (SP)	UID_USC OR EE_SC OF MR. A	HOSPITAL SIDE MEDICAL DEVICE (SP_SM)	PERMITTED TO RUN PROGRAM E
AC02	HOME SIDE MEDICAL DEVICE (EE)	HOSPITAL SIDE MEDICAL DEVICE (SP_SM)	HOME SIDE MEDICAL DEVICE (EE_SC)	PERMITTED TO HANDLE DATA X







	ISSUER	ISSUING TIMING HOLDER VERIFIER ATTRIBUTE	HOLDER	VERIFIER	ATTRIBUTE
SERVICE AC	HOME APPLIANCE AT TIME OF MANUFACTURER PURCHASIN (SP)	E AT TIME OF PURCHASING HOME APPLIANCE	MR. A UID_USC or EE_SC	SP_SM	EE MAINTENANCE SERVICE CONTENTS
CONTROL AC	HOME APPLIANCE (EE)	PRIOR TO OR AT TIME SP_SM OF AUTOMATIC MAINTENANCE	SP_SM	EE_SC	HOME APPLIANCE CONTROL CONSTRAINT RANGE X

FIG. 45

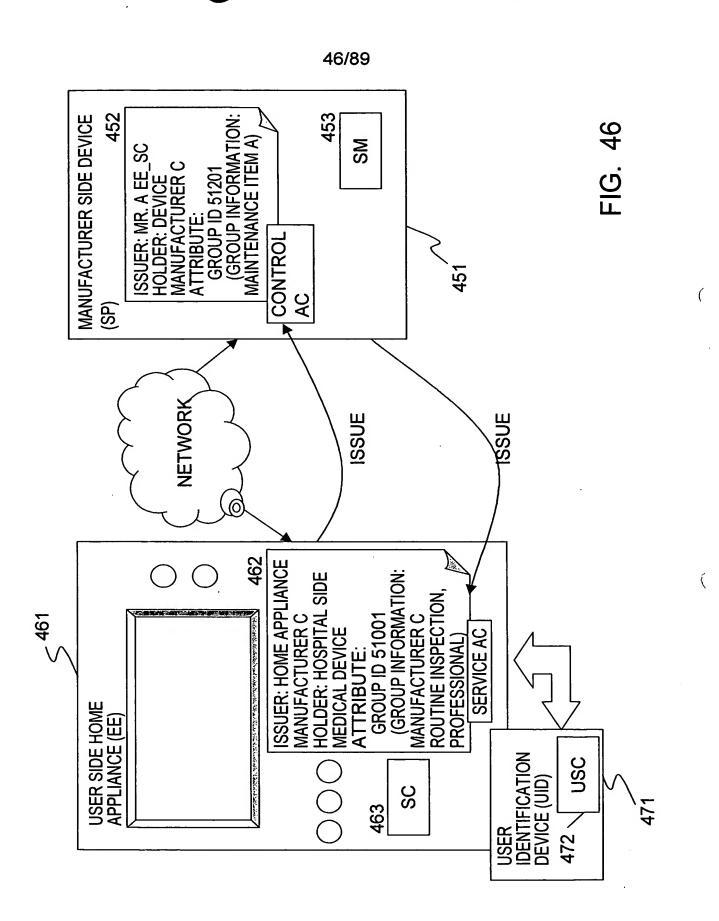
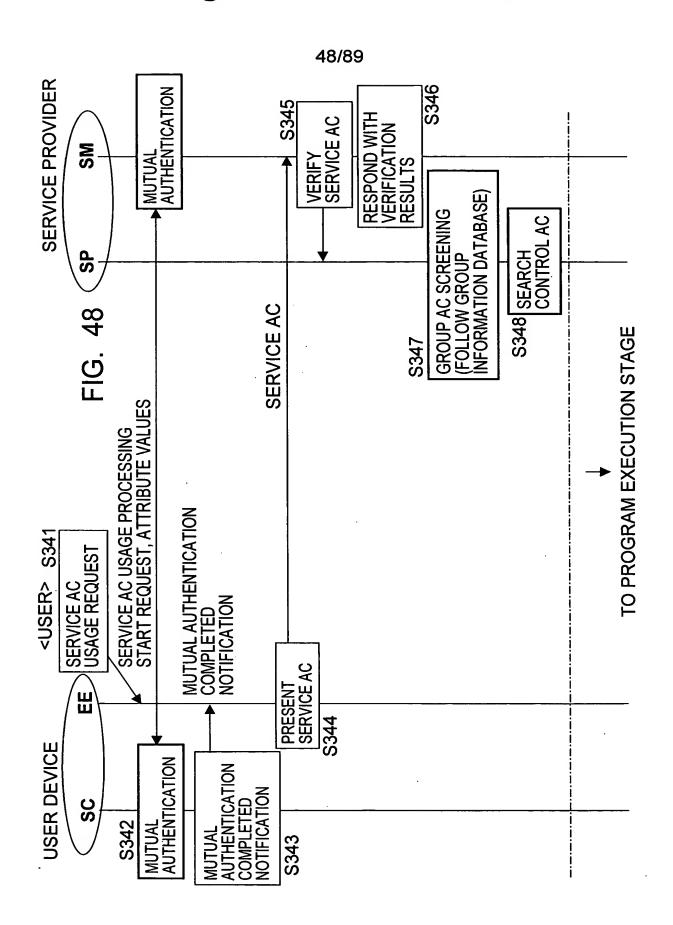


FIG. 47



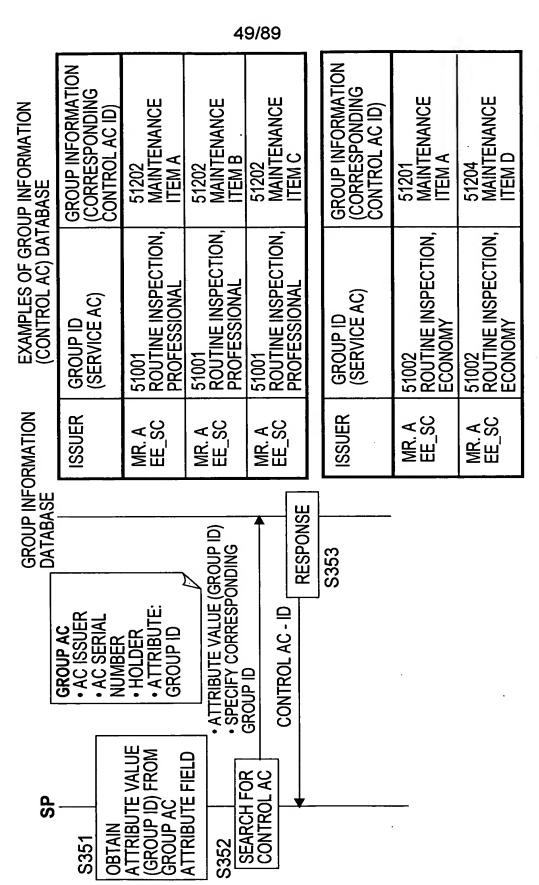
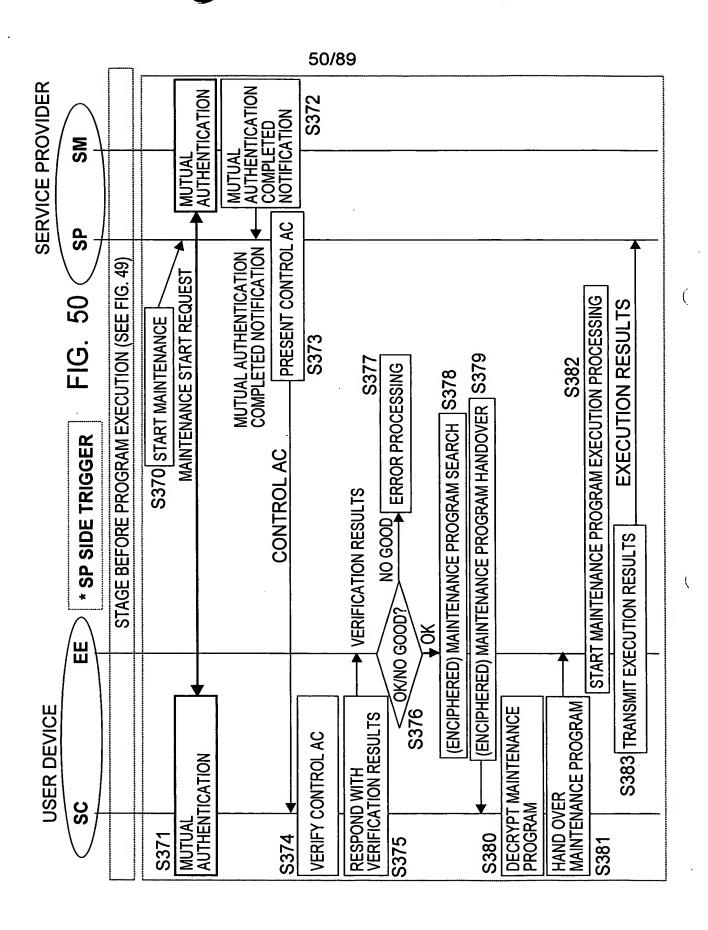
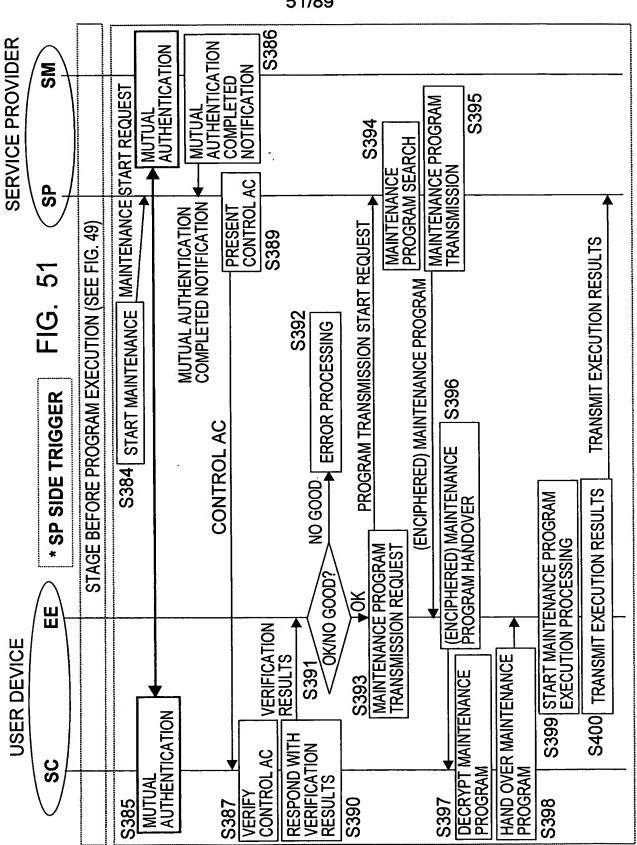
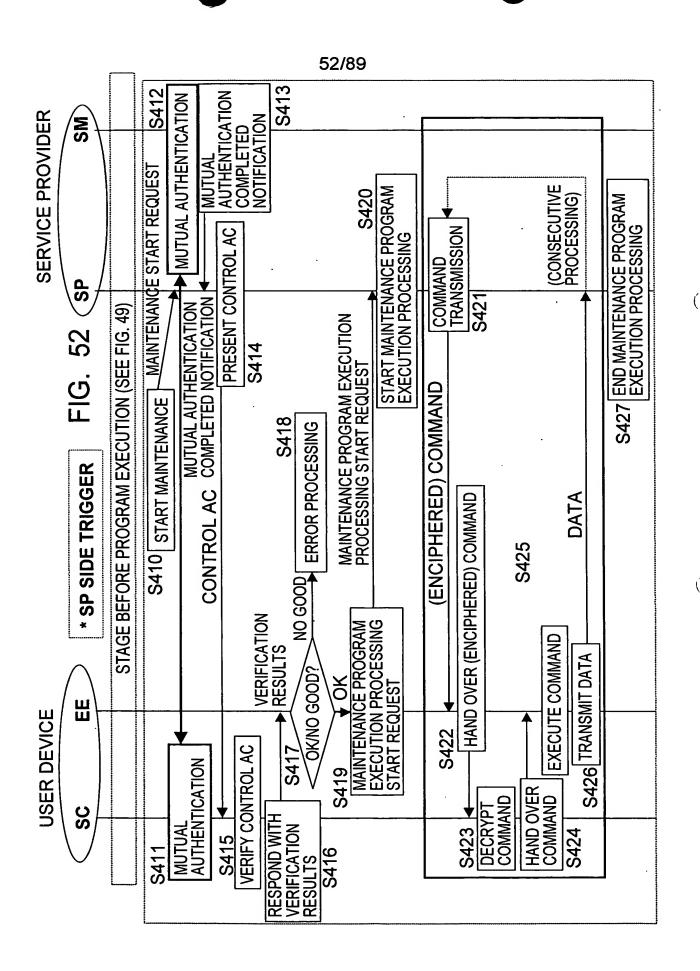


FIG. 49



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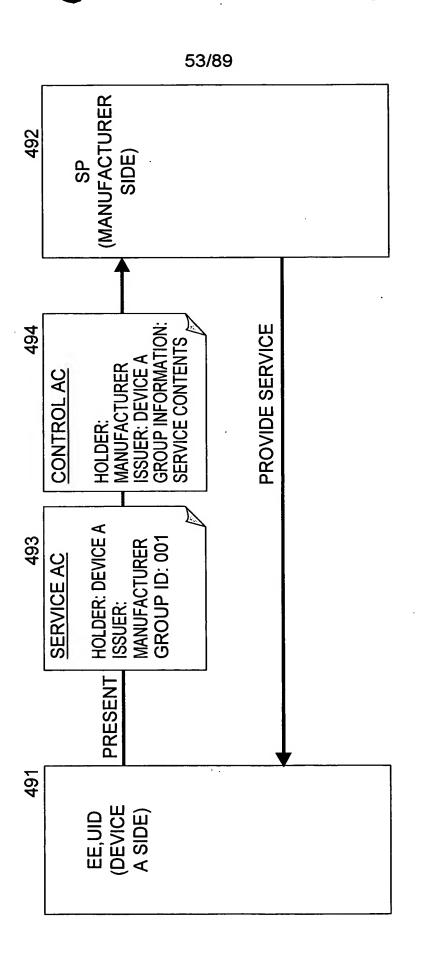
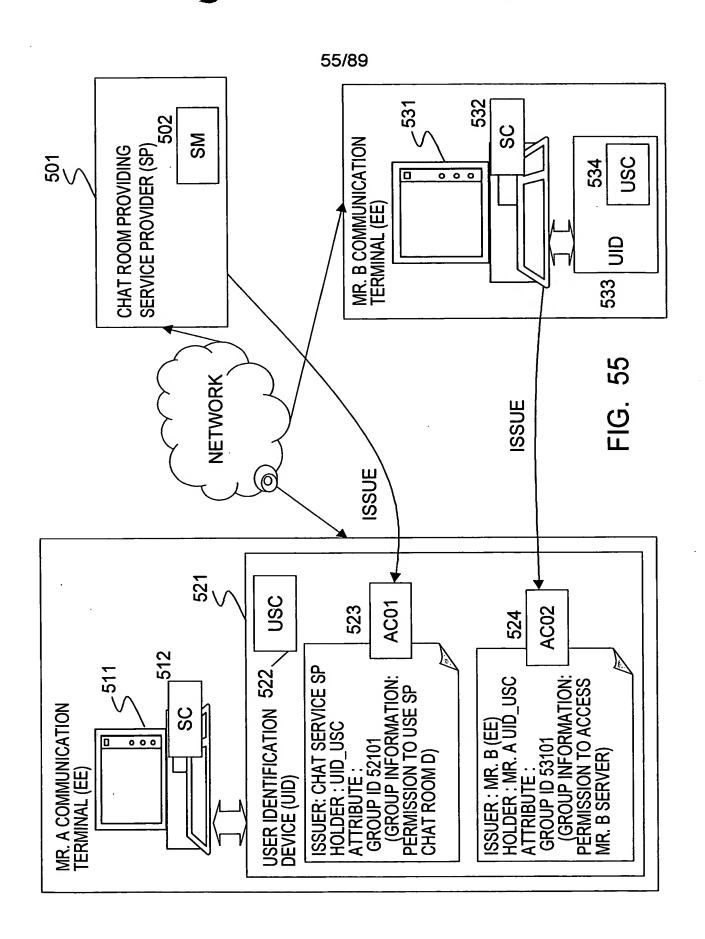
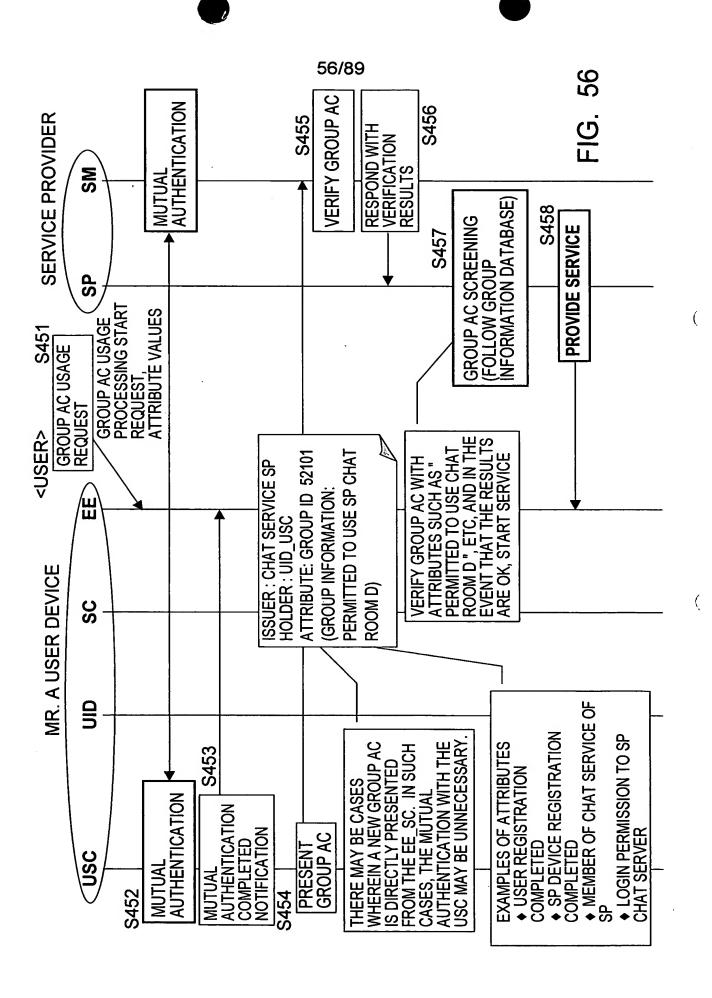


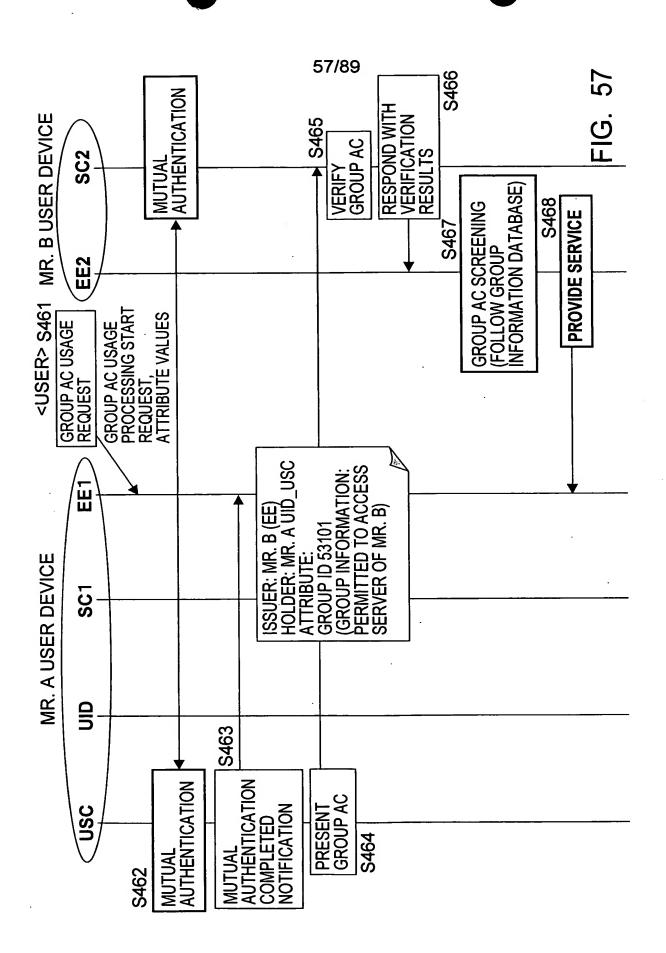
FIG. 53

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	ISSUER	ISSUING TIMING	HOLDER	VERIFIER	VERIFIER ATTRIBUTE
AC01	CHAT ADMINISTRA TOR (SP)	STRA AT LOGIN	MR. A UID_USC or EE_SC	ws_as	SP SERVER ACCESS PRIVILEGES
AC02	MR. B (SP) AT LOGIN	AT LOGIN	MR. A UID_USC or EE_SC	MR. B UID_USC or EE_SC	MR. B SERVER ACCESS PRIVILEGES







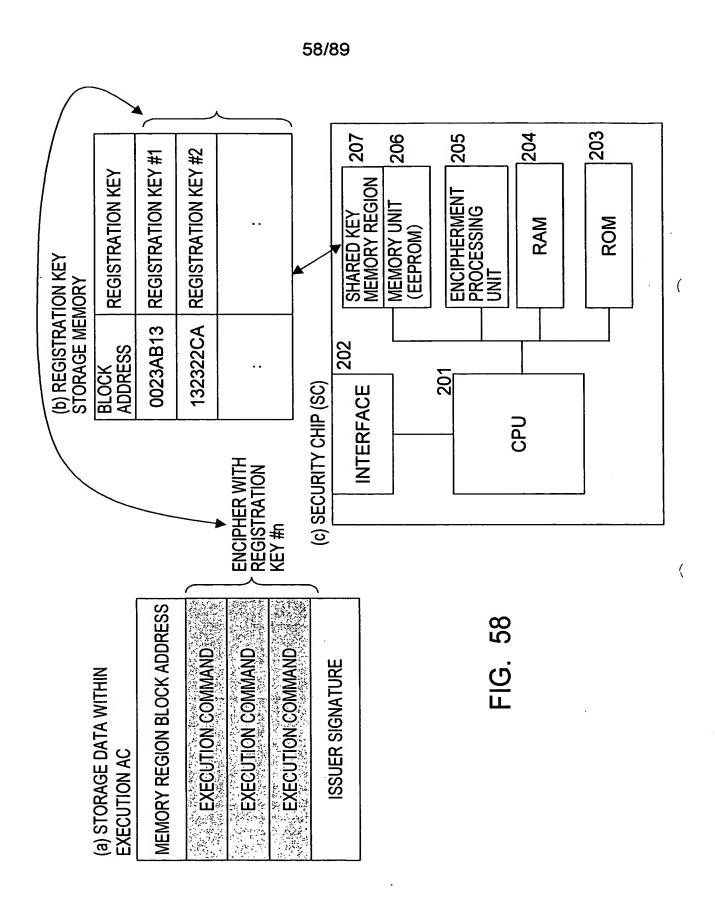
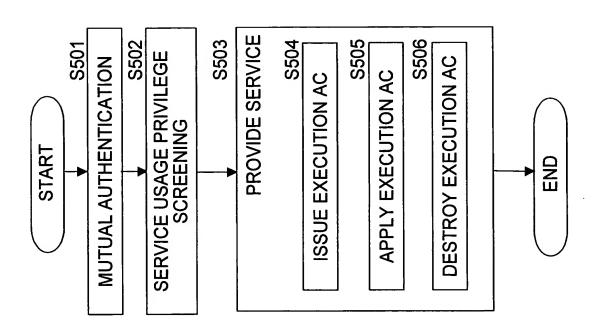
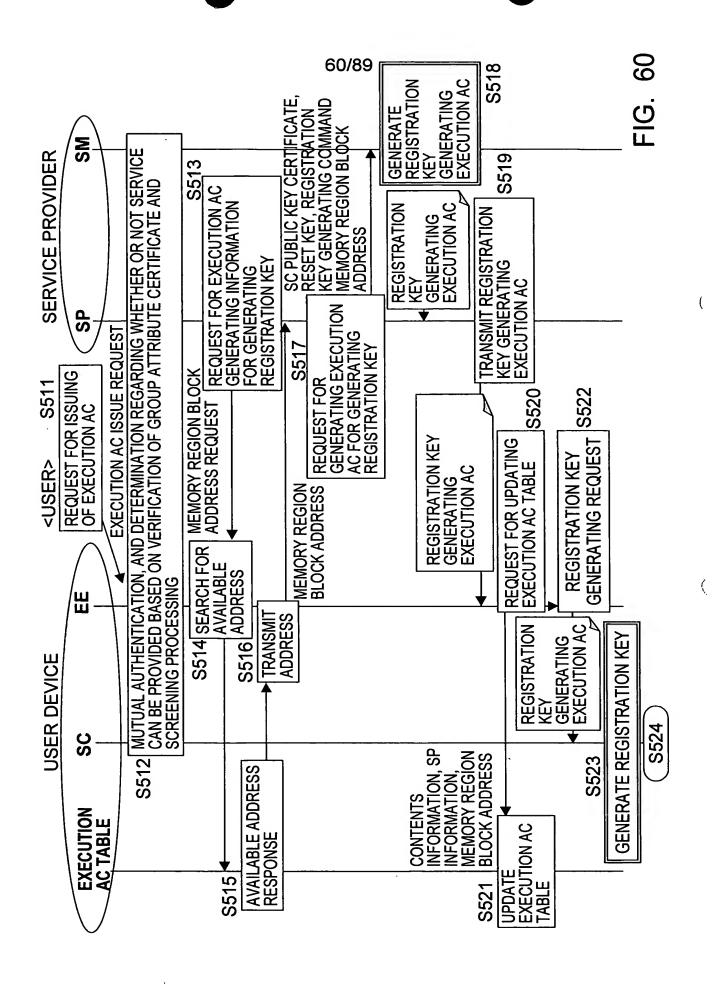


FIG. 59





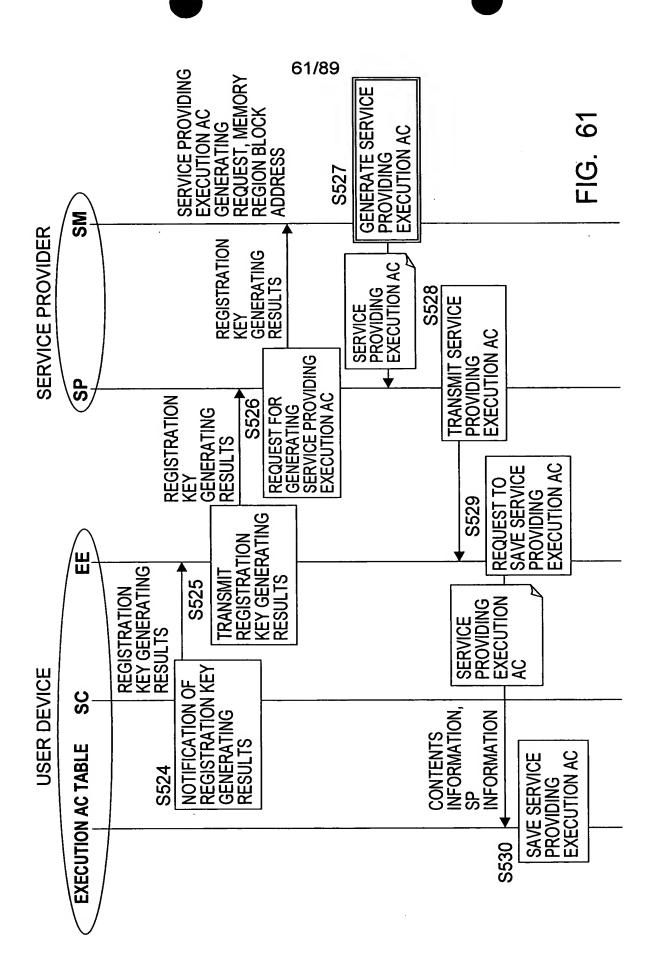
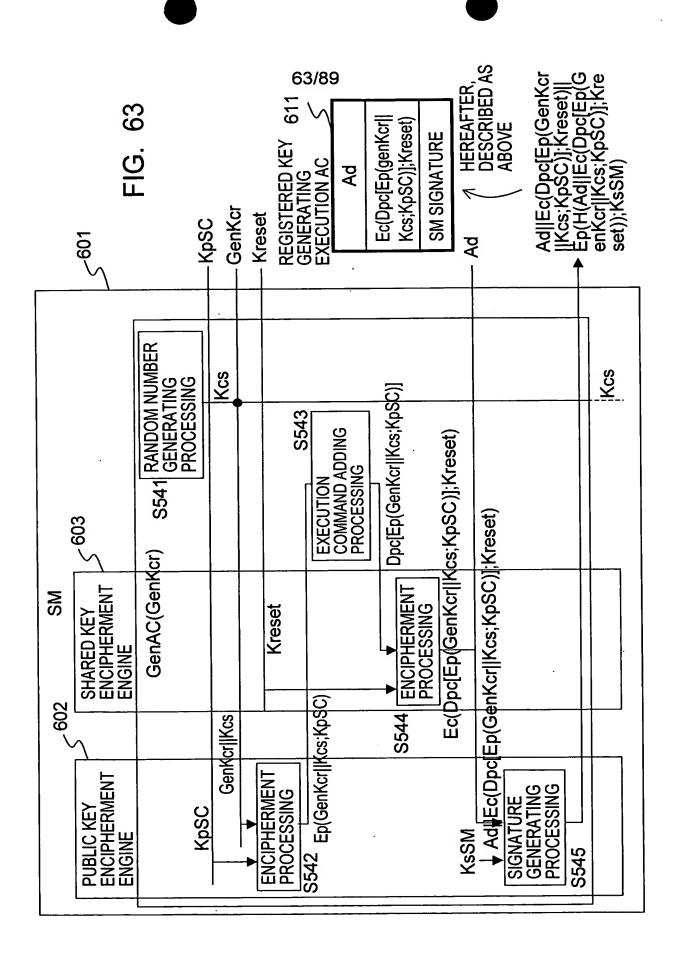
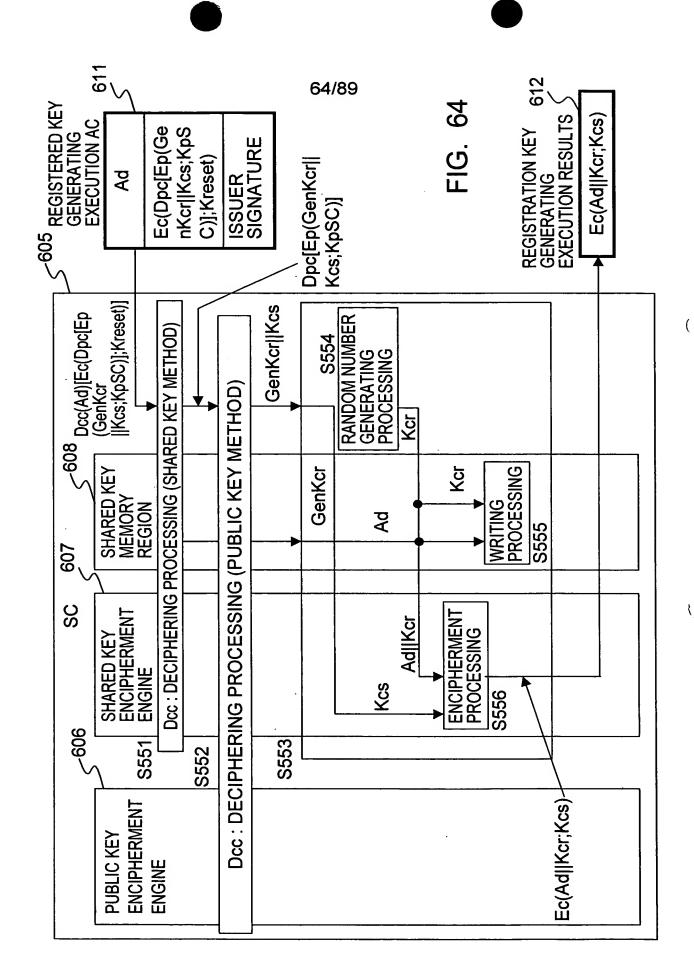


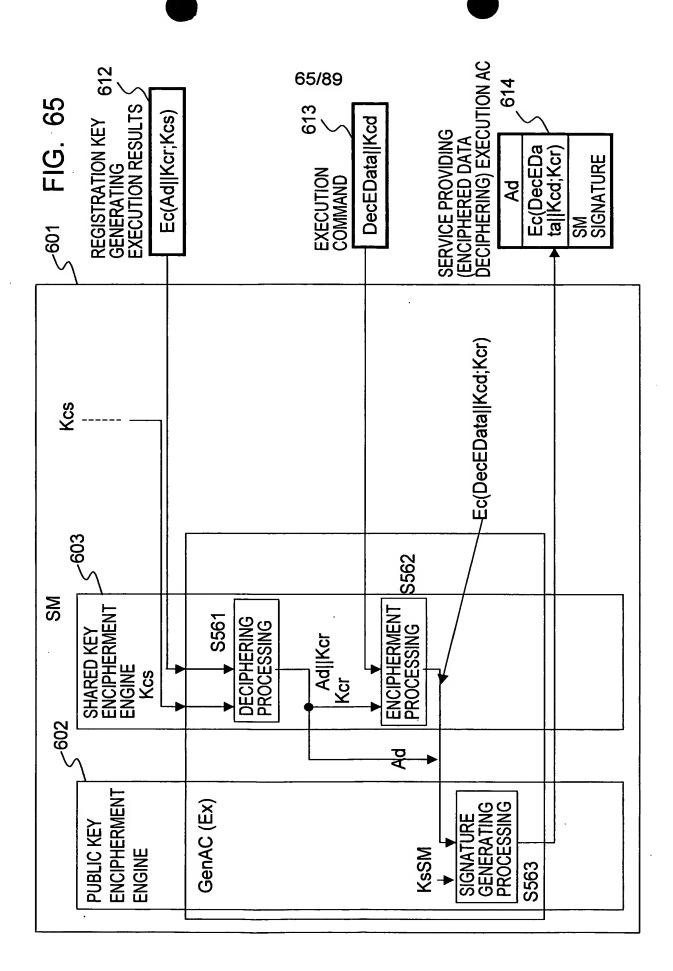
FIG. 62

SP INFORMATION	ENCIPHERED DATA (e.g., CONTENTS) INFORMATION	ENCIPHERED DATA (CONTENTS) DECIPHERING PROCESSING APPLICATION EXECUTION AC
SP_1	ENCIPHERED DATA 1	EXECUTION AC 0001
	ENCIPHERED DATA 2	EXECUTION AC 0002
SP_2	ENCIPHERED DATA 11	•••
	ENCIPHERED DATA 12	
	ENCIPHERED DATA 13	

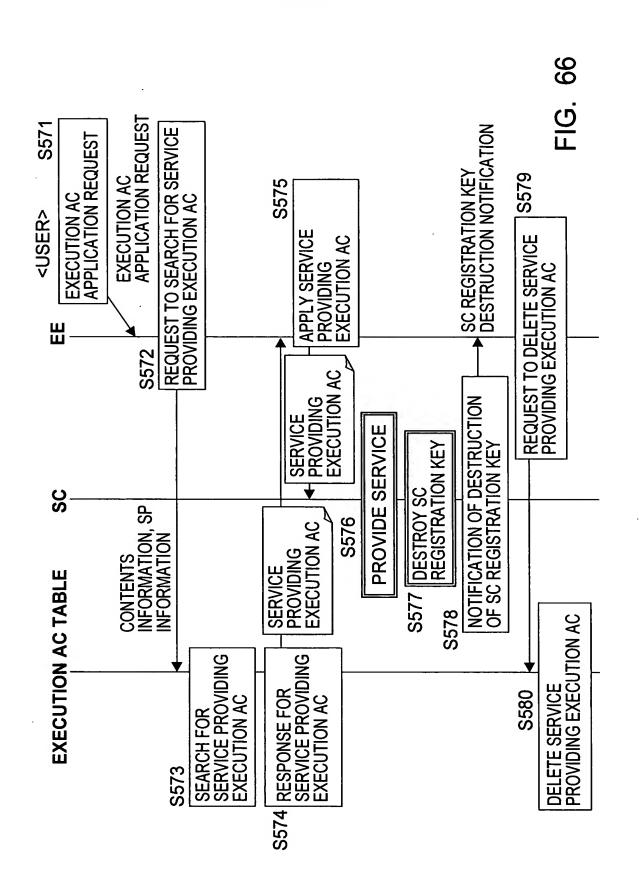
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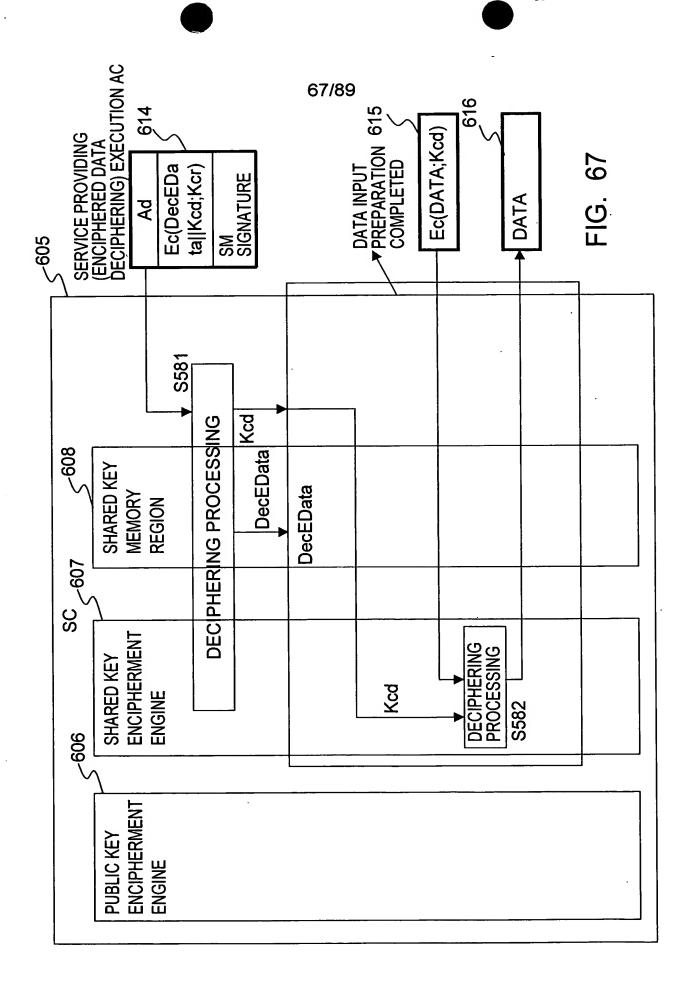


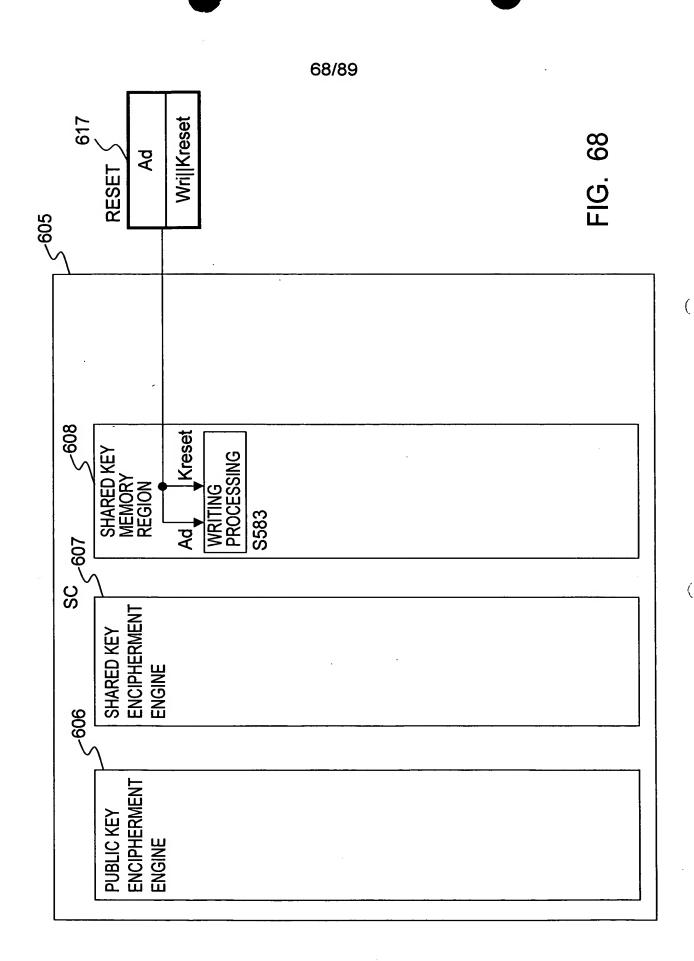




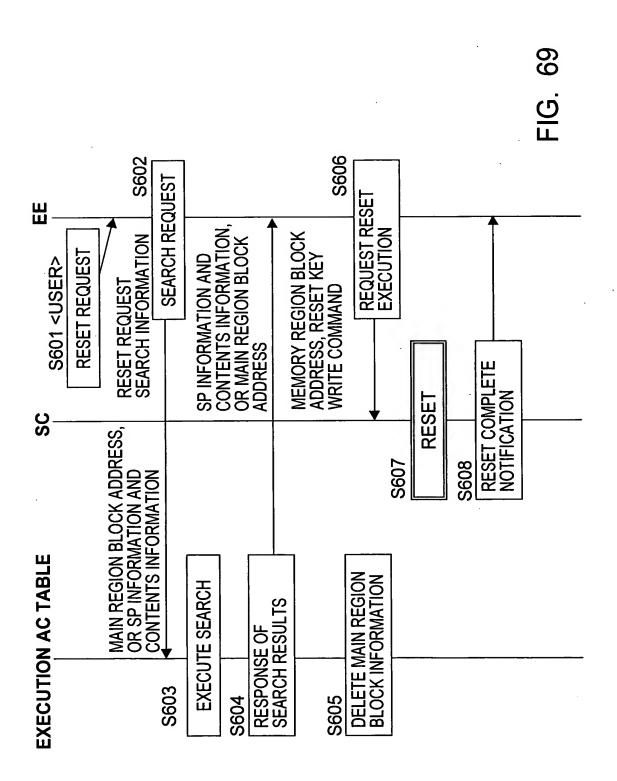
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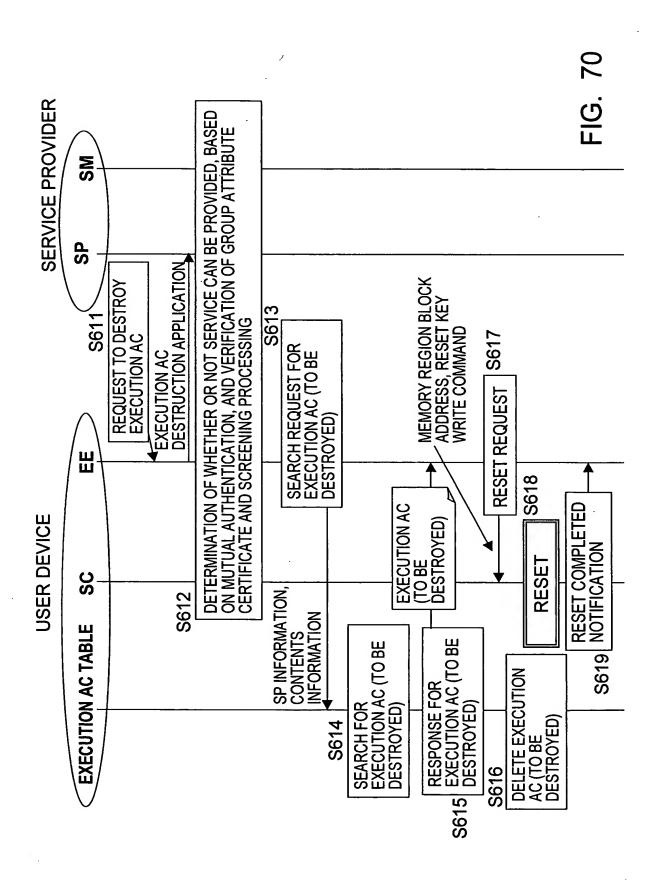


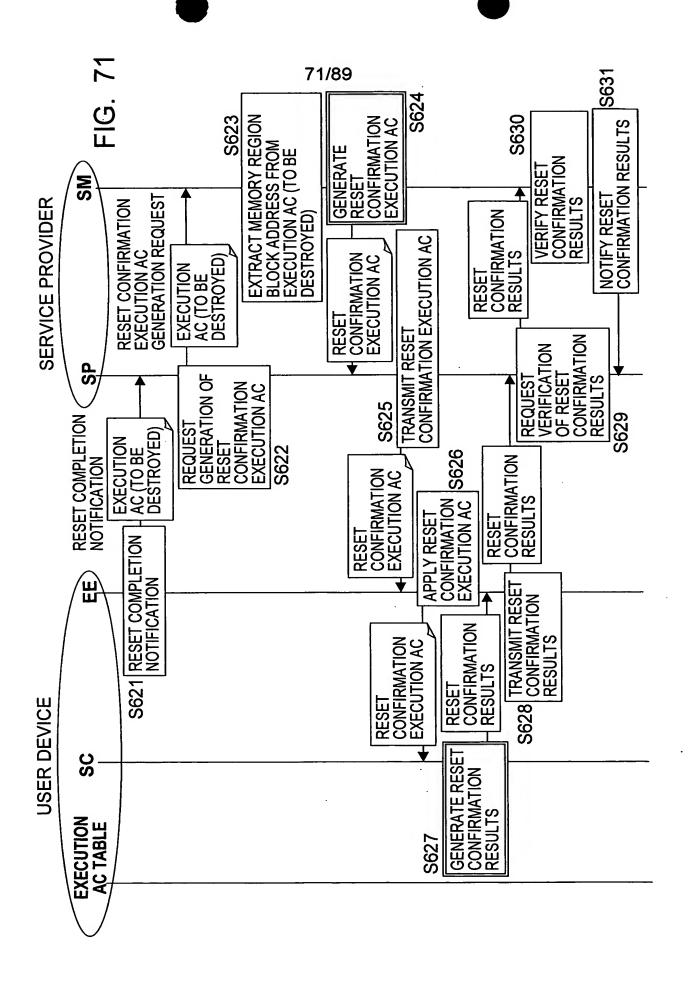


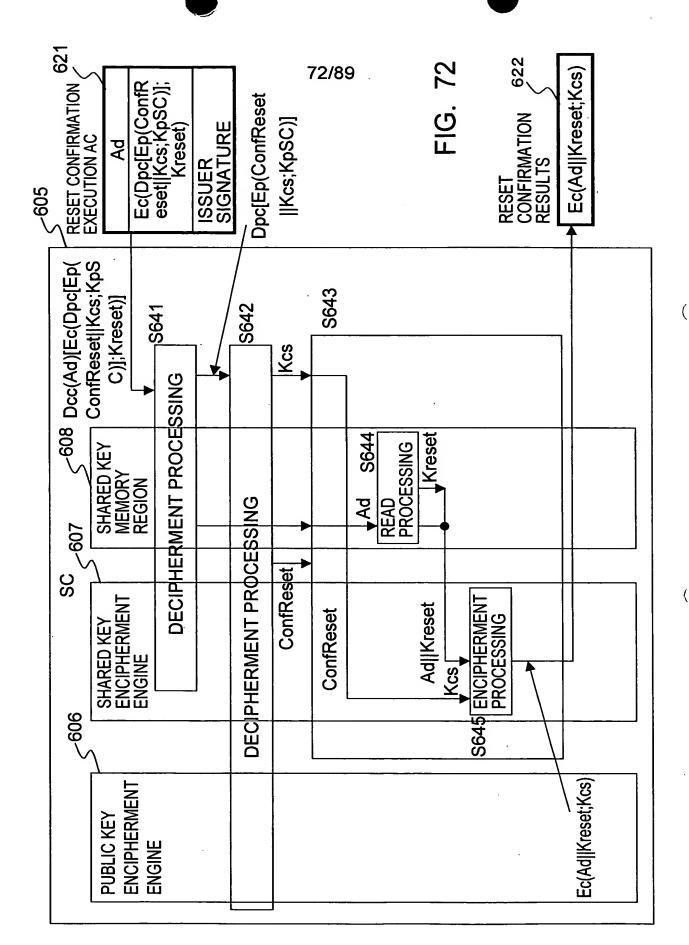
69/89

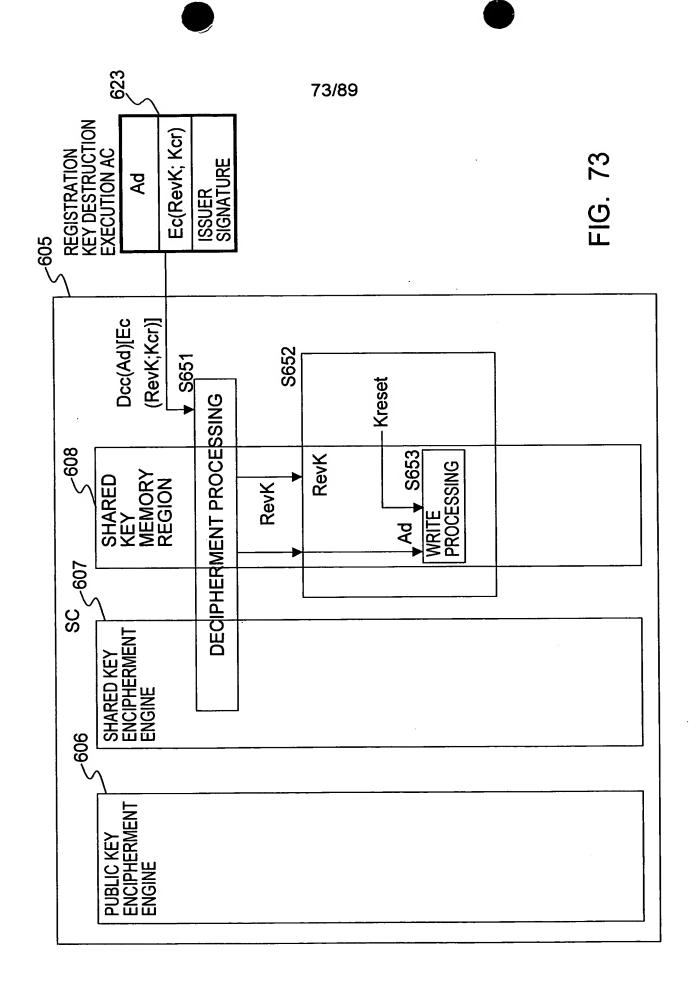


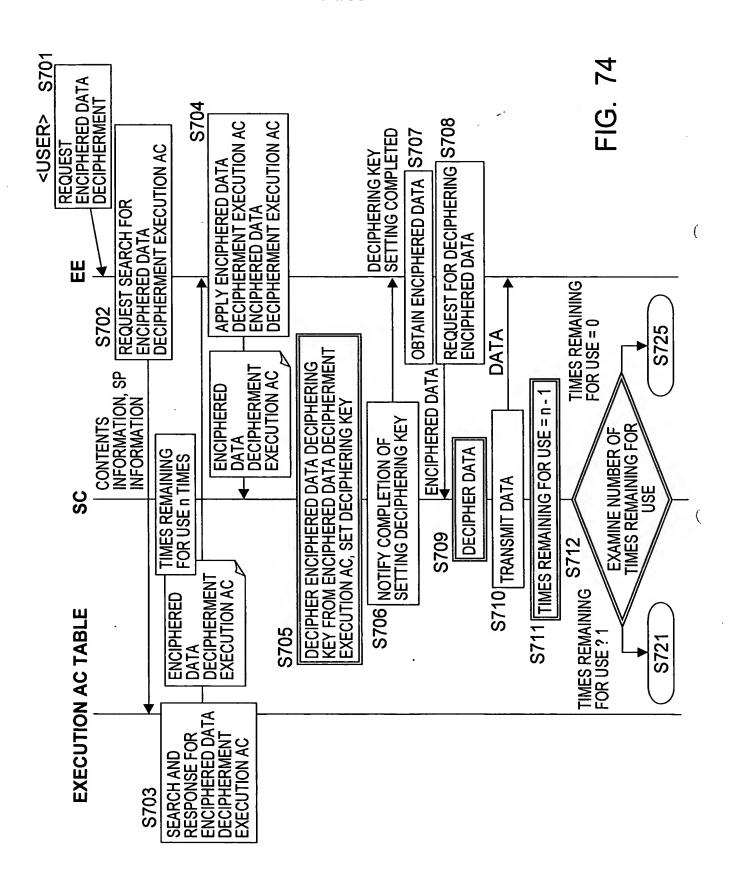
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(A) CASE OF TIMES REMAINING FOR USE BEING 1 OR GREATER FOLLOWING DATA DECIPHERMENT (n ≥ 2)

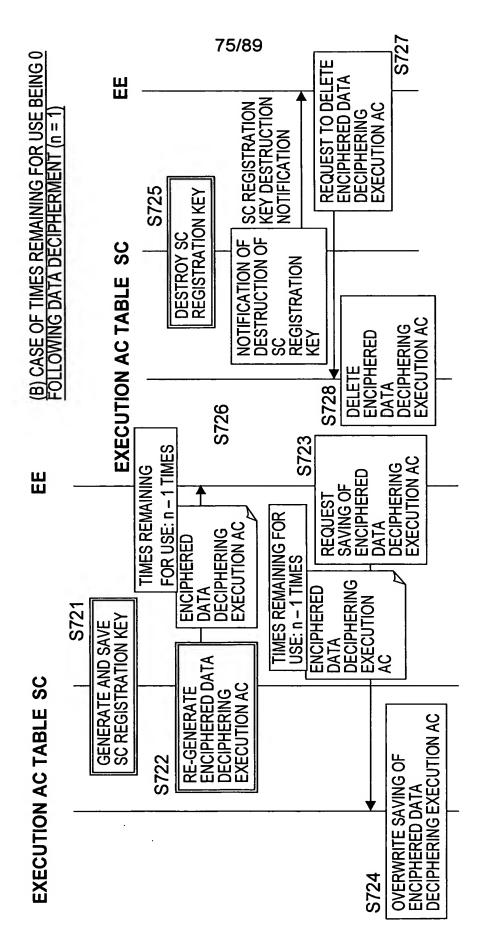
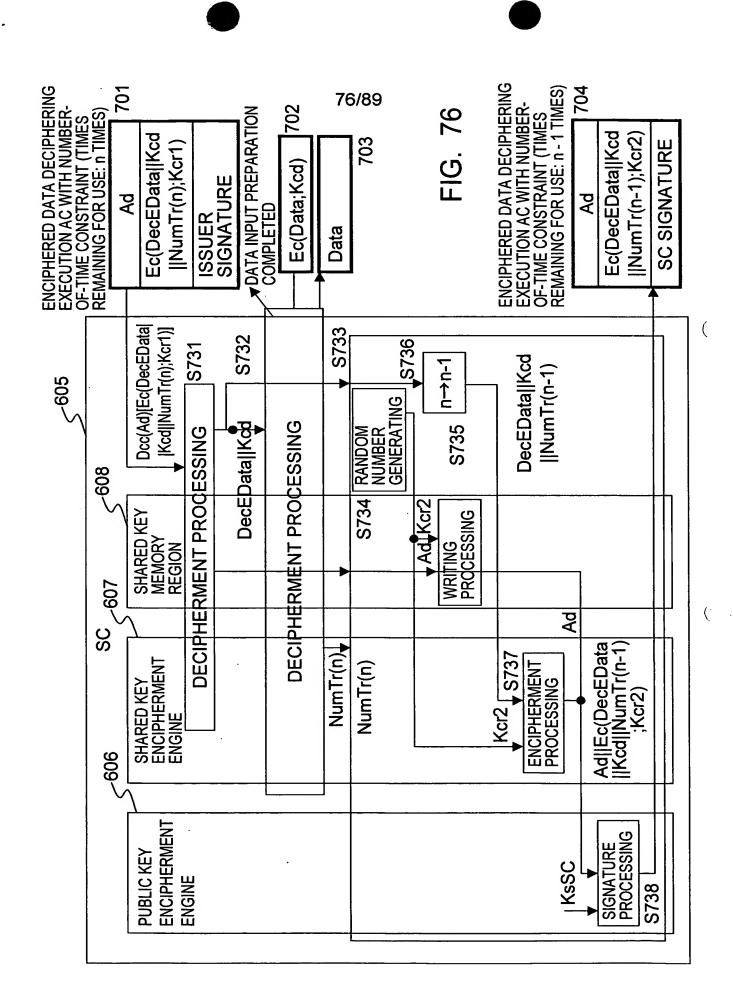
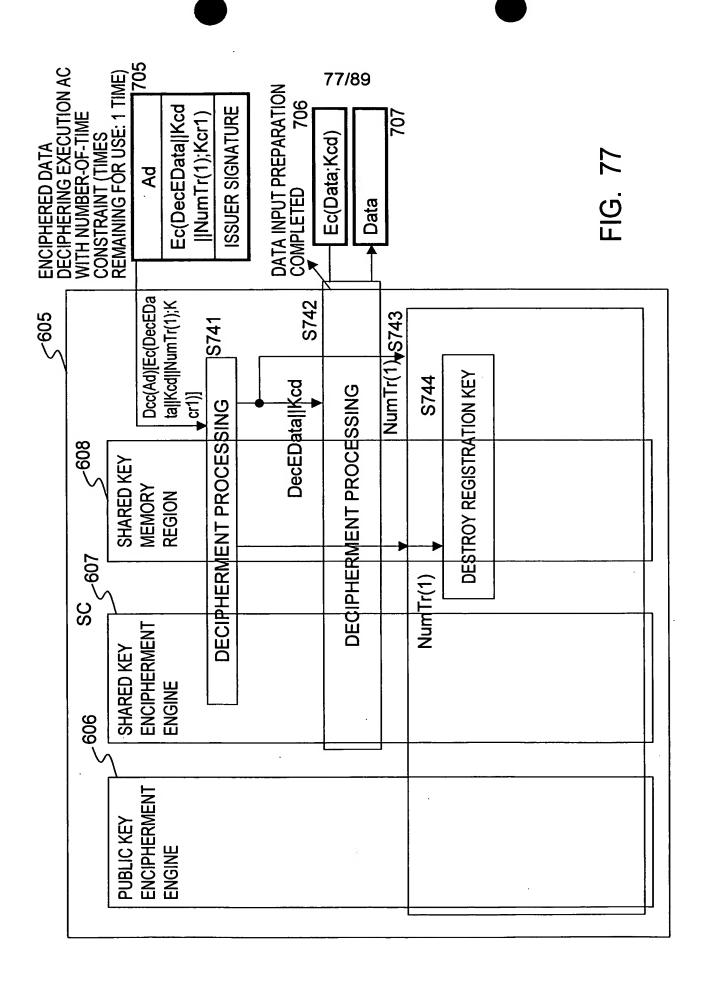
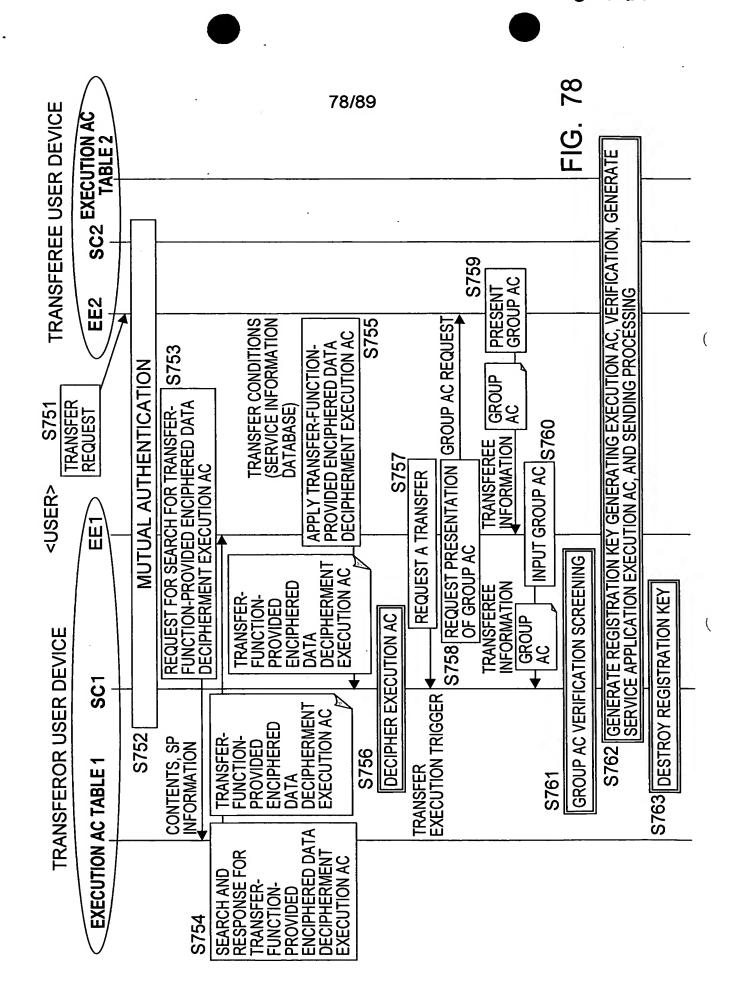
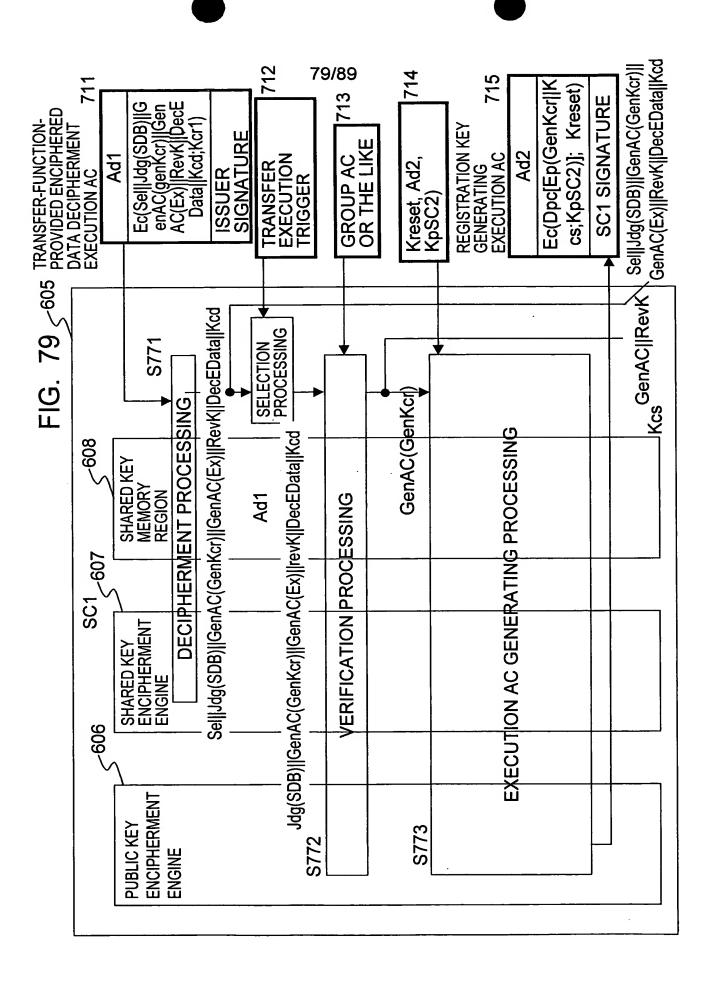


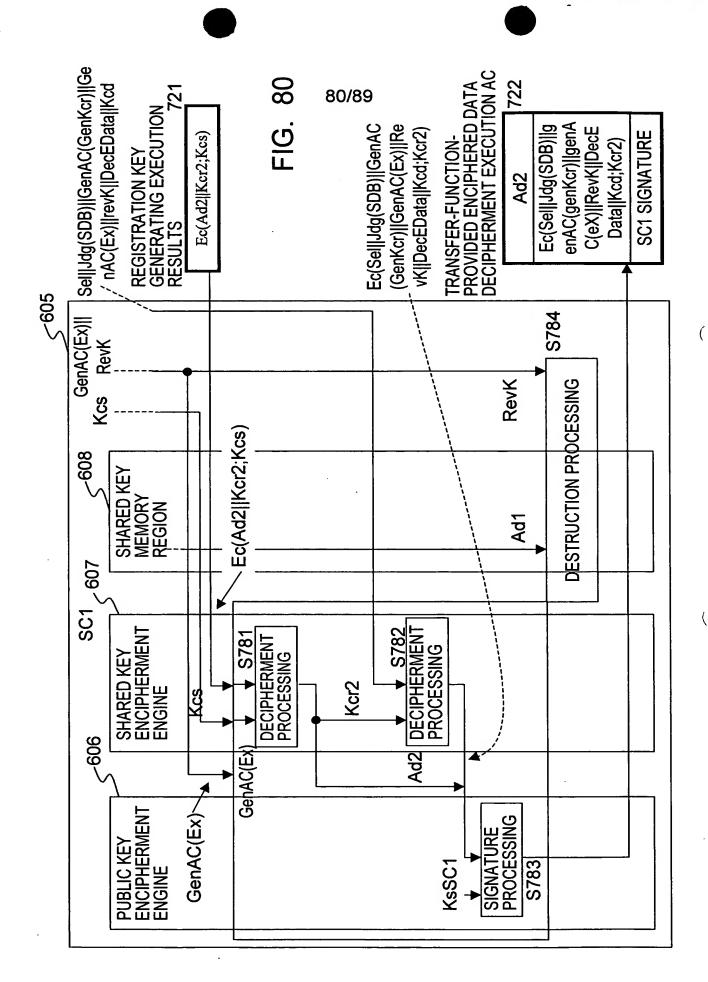
FIG. 75

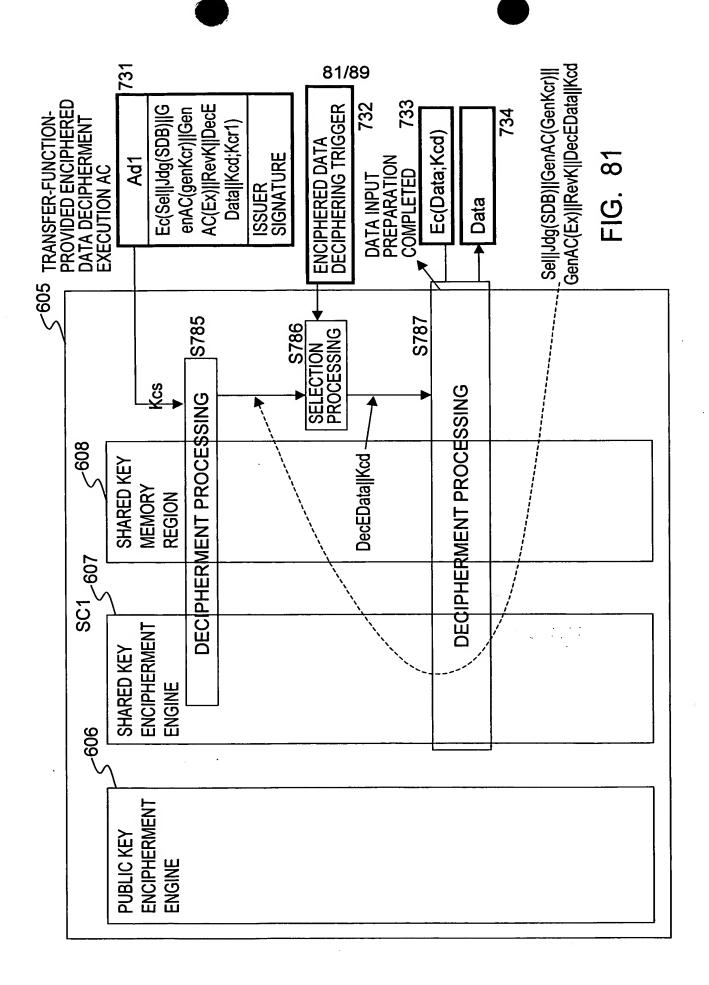


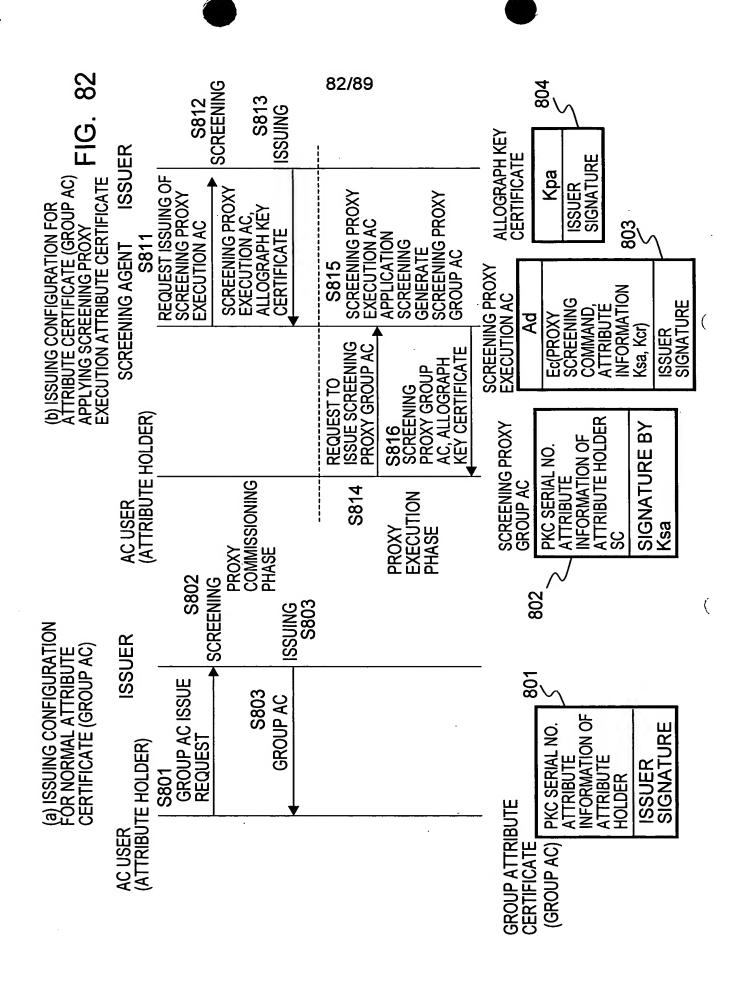












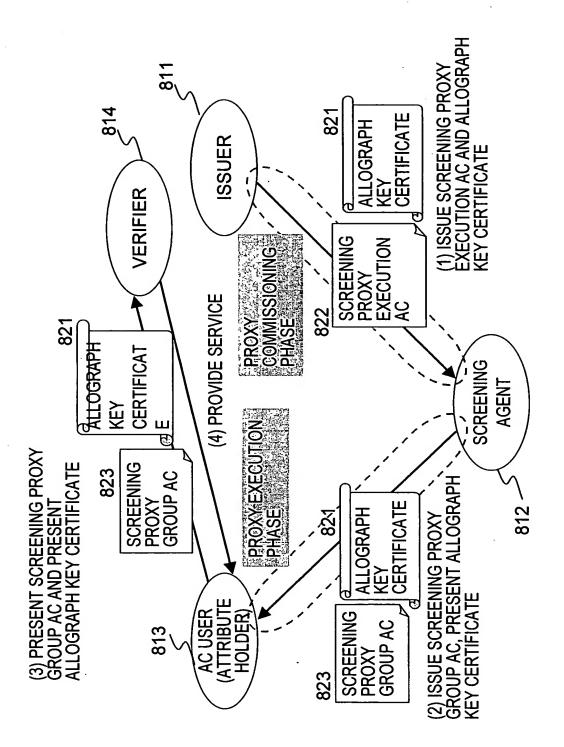


FIG. 83

